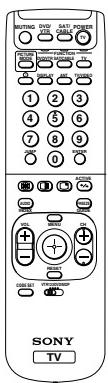
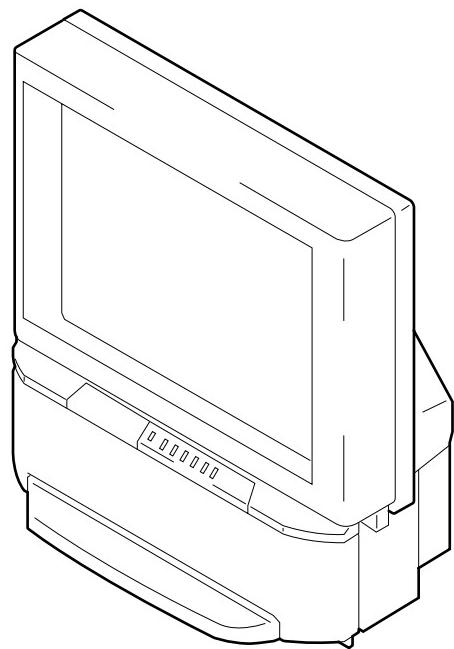


SERVICE MANUAL RA-3A CHASSIS

<u>MODEL</u>	<u>COMMANDER</u>	<u>DEST.</u>	<u>CHASSIS NO.</u>	<u>MODEL</u>	<u>COMMANDER</u>	<u>DEST.</u>	<u>CHASSIS NO.</u>
KP-48V85	RM-Y905	US	SCC-P43GA	KP-61V85	RM-Y905	US	SCC-P43HA
KP-48V85	RM-Y905	Canadian	SCC-P43GA	KP-61V85	RM-Y905	Canadian	SCC-P43HA
KP-53V85	RM-Y905	US	SCC-P43FA				
KP-53V85	RM-Y905	Canadian	SCC-P43FA				



RM-Y905



KP-48V85/53V85/61V85

COLOR REAR VIDEO PROJECTOR
SONY®

* Please file according to model size.

48 53 61

SPECIFICATIONS

Projection system

3 picture tubes, 3 lenses, horizontal in-line system

Picture tube

7-inch high-brightness monochrome tubes (6.3 raster size),
with optical coupling and liquid cooling system

Projection lenses

High performance, large diameter hybrid lens F1.05

Television system

American TV standard

Channel coverage

VHF: 2–13/UHF: 14 –69/CATV: 1 – 125

Antenna

75 ohm external terminal for VHF/UHF

Screen size (measured diagonally)

48 inches (KP-48V85)

53 inches (KP-53V85)

61 inches (KP-61V85)

Inputs/outputs

VIDEO 1/3 IN

VIDEO 2 INPUT

S VIDEO IN (4-pin mini DIN):

Y: 1 Vp-p, 75-ohms unbalanced, sync negative

C: 0.286 Vp-p (Burst signal), 75 ohms

VIDEO (phono jack): 1 Vp-p, 75-ohms unbalanced, sync negative

AUDIO (phono jacks): 500 mVrms (100% modulation),

Impedance: 47 kilohms

VIDEO 4/5 IN

Y: 1 Vp-p, 75 ohms, sync negative

PB: 0.7 Vp-p, 75 ohms

PR: 0.7 Vp-p, 75 ohms

AUDIO (phono jacks): 500 mVrms (100% modulation),

Impedance: 47 kilohms

TV OUT/MONITOR OUT

VIDEO (phono jack): 1 Vp-p, 75-ohms unbalanced, sync negative

AUDIO (phono jacks): 500 mVrms (100% modulation),

Impedance: 470 ohms

AUDIO (VAR/FIX) OUT (phono jacks): 500 mVrms (100% modulation), Impedance: 470 ohms

S-LINK: minijacks

CONTROL S OUT: minijack

Speaker

Tweeter: 66 mm (2 5/8") x 2

Woofer: 160 mm (6 3/8") x 2

Speaker output

20 W x 2

Power requirement

120 V AC, 60 Hz

Power consumption

In use (Max.): 170 W

In standby: 1 W

Dimensions (W/H/D)

1,105 x 1,338 x 579 mm (43 1/2 x 52 5/8 x 22 3/4 inches)

(KP-48V85)

1,216 x 1,417 x 632 mm (47 7/8 x 55 3/4 x 24 7/8 inches)

(KP-53V85)

1,370 x 1,560 x 670 mm (54 x 61 3/8 x 26 3/8 inches)

(KP-61V85)

Mass

68.8 kg (151 lbs 11 oz) (KP-48V85)

76.0 kg (167 lbs 9 oz) (KP-53V85)

93.6 kg (206 lbs 6 oz) (KP-61V85)

Supplied accessories

Remote control RM-Y905 (1)

Batteries (2) size AA (R6)

Optional accessories

Connecting cables

RK-G34, RK-74A, RK-G69HG, VMC-10HG,

VMC-720M, VMC-810S/820S, YC-15V/30V

U/V mixer EAC-66

Design and specifications are subject to change without notice.

SAFETY CHECK-OUT

(US model only)

After correcting the original service problem, perform the following safety checks before releasing the set to the customer:

1. Check the area of your repair for unsoldered or poorly-soldered connections. Check the entire board surface for solder splashes and bridges.
2. Check the interboard wiring to ensure that no wires are "pinched" or contact high-wattage resistors.
3. Check that all control knobs, shields, covers, ground straps, and mounting hardware have been replaced. Be absolutely certain that you have replaced all the insulators.
4. Look for unauthorized replacement parts, particularly transistors, that were installed during a previous repair. Point them out to the customer and recommend their replacement.
5. Look for parts which, through functioning, show obvious signs of deterioration. Point them out to the customer and recommend their replacement.
6. Check the line cords for cracks and abrasion. Recommend the replacement of any such line cord to the customer.
7. Check the condition of the monopole antenna (if any). Make sure the end is not broken off, and has the plastic cap on it. Point out the danger of impalement on a broken antenna to the customer, and recommend the antenna's replacement.
8. Check the B+ and HV to see they are at the values specified. Make sure your instruments are accurate; be suspicious of your HV meter if sets always have low HV.
9. Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5mA (500 microamperes). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)

HOW TO FIND A GOOD EARTH GROUND

A cold-water pipe is guaranteed earth ground; the cover-plate retaining screw on most AC outlet boxes is also at earth ground. If the retaining screw is to be used as your earth-ground, verify that it is at ground by measuring the resistance between it and a cold-water pipe with an ohmmeter. The reading should be zero ohms. If a cold-water pipe is not accessible, connect a 60-100 watts trouble light (not a neon lamp) between the hot side of the receptacle and the retaining screw. Try both slots, if necessary, to locate the hot side of the line; the lamp should light at normal brilliance if the screw is at ground potential. (See Fig. B)

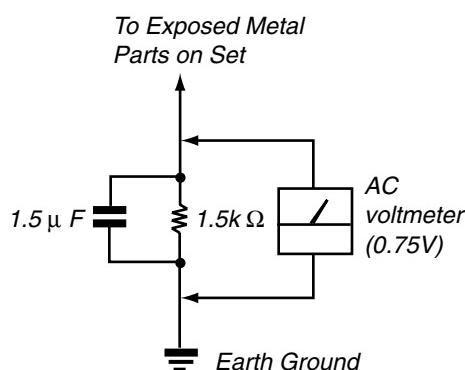


Fig. A. Using an AC voltmeter to check AC leakage.

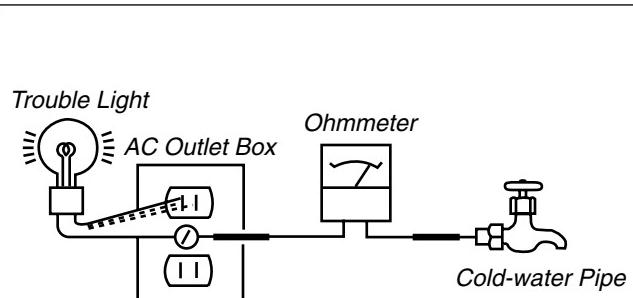


Fig. B. Checking for earth ground.

SELF DIAGNOSIS FUNCTION

1. Summary of Self-Diagnosis Function

- This device includes a self-diagnosis function.
- In case of abnormalities, the TIMER/STANDBY indicator automatically blinks. It is possible to predict the abnormality location by the number of blinks. The Instruction Manual describes blinking of the TIMER/STANDBY indicator.
- If the symptom is not reproduced sometimes in case of a malfunction, there is recording of whether a malfunction was generated or not. Operate the remote command to confirm the matter on the screen and to predict the location of the abnormality.

2. Diagnosis Items and Prediction of Malfunction Location

- When a malfunction occurs the TIMER/STANDBY indicator only blinks for one of the following diagnosis items. In case of two or more malfunctions, the item which first occurred blinks. If the malfunctions occurred simultaneously, the item with the lower blink count blinks first.
- The screen display displays the results regarding all the diagnosis items listed below. The display “ 0 ” means that no malfunctions occurred.

Diagnosis item	TIMER/STANDBY Indicator Number of blinks	Supposed malfunction	Condition	Self-diagnosis screen display, Diagnosis item: Results
• Power not ON	0	[Standby Power Supply System] F601 open. R607 open. Q601 short circuit [Main Power Supply System] IC601 and R612 are broken. VDR601 short-circuit	Cannot turn on the power. LED doesn't blink.	
+B OCP detection	2 times	Short circuit of power supply system in each circuit.	Goes to the standby mode Short circuit of +B line	2 : +B OCP 000
+B OVP detection	3 times	T603 pin 78 open. R672 open.	Goes to the standby mode Malfunction of power supply circuit	3 : +B OVP 000
Vertical deflection stop	4 times	IC1509(V out) is broken. Q1505(V Pulse Buffer) is broken.	Raster goes to one line horizontally, And then video signal is muted.	4 : V Stop 000
Video out abnormality detection	5 times	Video out, Q705, 732, 761 and others in C board circuit. Q218, 219, 220 (A board)	TIMER/STANDBY LED blinks approx. 30 seconds, and then blinks for the self diagnosis.	5 : AKB 000
Horizontal deflection stop	6 times	C515, 516 open. IC206(YC Jungle) is broken.	Raster doesn't appear.	6 : H Stop 000
Audio abnormality detection	8 times	IC406(Audio amp.) is broken. PS401, 402 open.	The sound is not out. Goes to the standby mode	8 : Audio 000

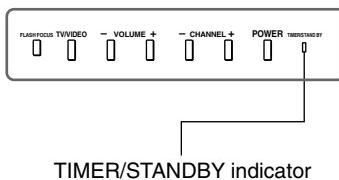
* : 000 the range of values for number of operations is 000-255. For 256 or higher there is no count up and the number remains at 255.

3. Blinking count display of TIMER/STANDBY indicator

* One blink is not used for self-diagnosis.

< FRONT PANEL >

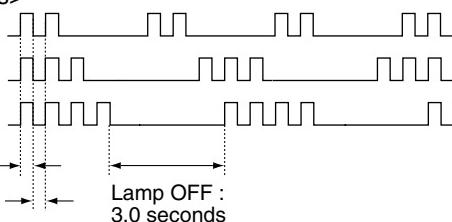
•EXAMPLE



<Diagnosis Items> <Number of Blinks>

- +B overcurrent 2 times
- +B overvoltage 3 times
- Vertical deflection stop 4 times

Lamp ON : 0.3 seconds Lamp OFF : 0.3 seconds Lamp OFF : 3.0 seconds



Release of TIMER/STANDBY indicator blinking.

- The TIMER/STANDBY indicator blinking display is released by turning OFF the power switch on the TV main unit or removing the plug from the power.

4. Self-diagnosis screen displays

- In cases of malfunctions where it is not possible to determine the symptom such as when the power goes off occasionally or when the screen disappears occasionally, there is a screen display on whether the malfunction occurred or not in the past (and whether the detection circuit operated or not) in order to allow confirmation.

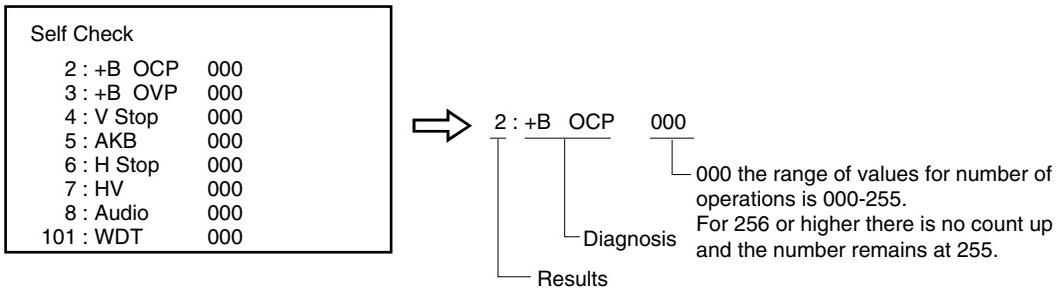
<Screen Display Method>

- Quickly press the remote command button in the following order from the standby state.

[DISPLAY] → Channel [5] → VOL [-] → [POWER]
 ↑

Be aware that this differs from the method of
 entering the service mode (volume [+]).

Self-diagnosis screen display



5. Self-Diagnosis Screen Display

- The results display is not automatically cleared. In case of repairs and after repairs, check the self-diagnosis screen and be sure to return the results display to “0”.
- If the results display is not returned to “0” it will not be possible to judge a new malfunction after completing repairs.

<Method of Clearing Results Display>

- Power off (Set to the standby mode)
- [DISPLAY] → Channel [5] → VOL [+] → [POWER] (Service Mode)
- Channel [8] → [ENTER] (Test reset = Factory preset condition)

<Method of Ending Self Diagnosis Screen>

- When ending the self-diagnosis screen completely, turn the power switch OFF on the remote commander or the main unit.

6. Self-diagnosis function operation

- OCP Low B and +B line detect DET SHORT, and shut-down POWER ON RELAY.
Reset by turning power on/off.
In case of +B is loaded approx. 2A or more, microcomputer detects it via IC651.
- OVP In case of +B becomes approx. 150V or more, POWER ON RELAY shuts down and microcomputer detects it via IC651.
Reset by turning power on/off just the same as OCP.
- V Stop In case of microcomputer detects 2 seconds or more interval of V Pulse, Reference Pulse turns off by turning off the picture signal in YC Jungle IC (IC206).
After the picture signal turns off, H Pulse is regenerated 2 seconds or more, the picture signal turns on.
- AKB IK detection. Makes LED blinking in case of microcomputer doesn't detect IK returns of IC206 CXA2147Q 30 seconds or more.
- H Stop In case of HV becomes 33kV or more, IC502 detects it and shut-down H Drive Pulse.
Microcomputer receives H Stop data from IC206 and makes LED blinking.
- Audio In case of DC component overlaps the output of Audio Amp., microcomputer detects it and makes LED blinking.
Microcomputer forces to shut down the power.

Self-diagnosis block diagram

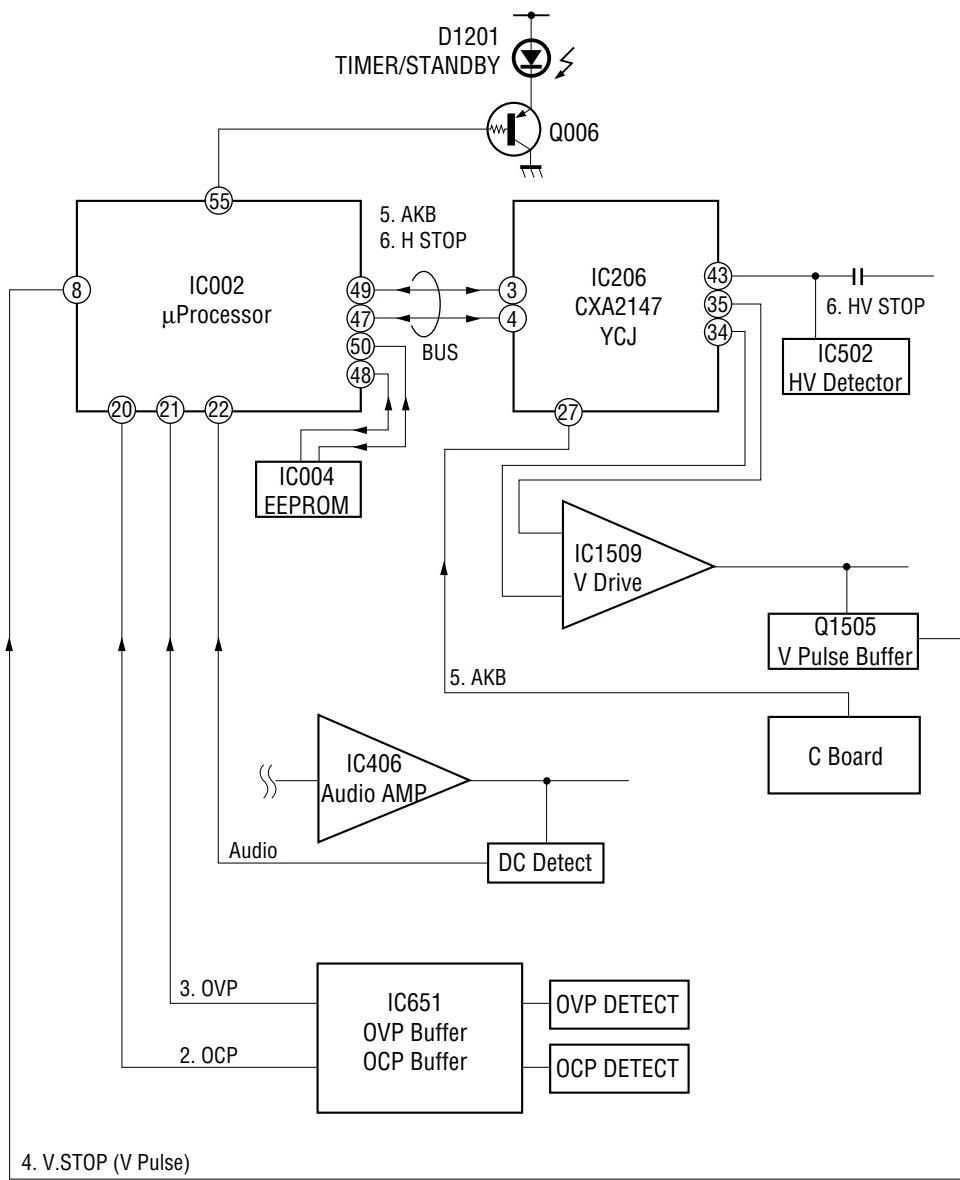


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(CAUTION)

SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR CARBON PAINTED ON THE CRT, AFTER REMOVING THE ANODE.

WARNING!!

AN ISOLATION TRANSFORMER SHOULD BE USED DURING ANY SERVICE TO AVOID POSSIBLE SHOCK HAZARD, BECAUSE OF LIVE CHASSIS.
THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE AC POWER LINE.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK \triangle ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL TO SAFE OPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.

(ATTENTION)

APRES AVOIR DECONNECTE LE CAP DE L'ANODE, COURTCIRCUITER L'ANODE DU TUBE CATHODIQUE ET CELUI DE L'ANODE DU CAP AU CHASSIS METALLIQUE DE L'APPAREIL, OU AU COUCHE DE CARBONE PEINTE SUR LE TUBE CATHODIQUE OU AU BLINDAGE DU TUBE CATHODIQUE.

ATTENTION!!

AFIN D'EVITER TOUT RISQUE DE ELECTROCUTION PROVENANT D'UN CHASSIS SOUS TENSION, UN TRANSFORMATEUR D'ISOLEMENT DOIT ETRE UTILISE LORS DE TOUT DEPANNAGE.

LE CHASSIS DE CE RECEPTEUR EST DIRECTEMENT RACCORDE Á L'ALIMENTATION SECTEUR.

ATTENTION AUX COMPOSANTS RELATIFS Á LA SÉCURITÉ!!

LES COMPOSANTS IDENTIFIÉS PAR UNE TRAME ET PAR UNE MAPQUE \triangle SUR LES SCHÉMAS DE PRINCIPE, LES VUES EXPLOSÉES ET LES LISTES DE PIÈCES SONT D'UNE IMPORTANCE CRITIQUE POUR LA SÉCURITÉ DU FONCTIONNEMENT. NE LES REMPLACER QUE PAR DES COMPOSANTS SONY DONT LE NUMÉRO DE PIÈCE EST INDICUIT DANS LE PRÉSENT MANUEL OU DANS DES SUPPLÉMENTS PUBLIÉS PAR SONY. LES RÉGLAGES DE CIRCUIT DONT L'IMPORTANCE EST CRITIQUE POUR LA SÉCURITÉ DU FONCTIONNEMENT SONT IDENTIFIÉS DANS LE PRÉSENT MANUEL. SUIVRE CES PROCÉDURES LORS DE CHAQUE REMPLACEMENT DE COMPOSANTS CRITIQUES, OU LORSQU'UN MAUVAIS FONCTIONNEMENT EST SUSPECTÉ.

SECTION 1**GENERAL**

The operating instructions mentioned here are partial abstracts from the Operating Instructions Manual. The page numbers of the Operating Instruction Manual remain as in the manual. (Part no : 4-077-172-11)

Using This Manual

We recommend that you carefully review the contents of the following four sections in the order provided to ensure that you fully understand the operation of your new projection TV.

1 Installing and Connecting the Projection TV

This section guides you through your initial set up. It shows you how to install your projection TV, to connect your new components and to connect to the antenna and cable.

2 Basic Set Up

This section teaches you the basic skills needed to operate your new projection TV, including Auto Set Up. It shows you how to operate the remote control's special functions.

3 Using Your New Projection TV

This section shows you how to begin using your new projection TV. It shows you how to use your remote control's features.

4 Adjusting Your Set Up (menus)

This section teaches you how to access on-screen menus and adjust your projection TV's settings.

Instructions in this manual are written for the remote control. Similar controls may be found on the projection TV console.

2

Precautions**Safety**

- Operate the projection TV only on 120 V AC.
- The plug is designed, for safety purposes, to fit into the wall outlet only one way. If you are unable to insert the plug fully into the outlet, contact your dealer.
- If any liquid or solid object should fall inside the cabinet, unplug the projection TV immediately and have it checked by qualified service personnel before operating it further.
- If you will not be using the projection TV for several days, disconnect the power by pulling the plug itself. Never pull on the cord.

For details concerning safety precautions, see the supplied leaflet "IMPORTANT SAFEGUARDS."

Note on cleaning

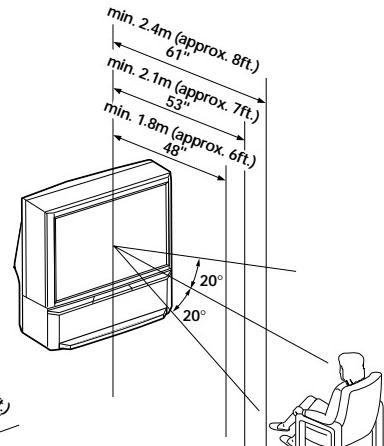
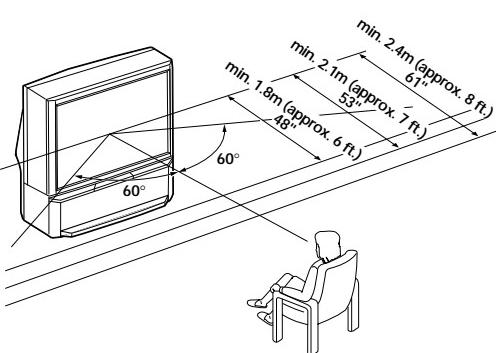
Clean the cabinet of the projection TV with a dry soft cloth. To remove dust from the screen, wipe it gently with a soft cloth. Stubborn stains may be removed with a cloth slightly dampened with solution of mild soap and warm water. Never use strong solvents such as thinner or benzine for cleaning.

If the picture becomes dark after using the projection TV for a long period of time, it may be necessary to clean the inside of the projection TV. Consult qualified service personnel.

Installing and Connecting the Projection TV**Carrying Your Projection TV****Recommended viewing area (Vertical)**

Carrying the projection TV requires three or more people.

The projection TV has been equipped with casters for easy movement on a hard surface. Please move your projection TV using the casters.

**Installing the Projection TV****Recommended viewing area (Horizontal)****Installing**

- To prevent internal heat buildup, do not block the ventilation openings.
- Do not install the projection TV in a hot or humid place, or in a place subject to excessive dust or mechanical vibration.
- Avoid operating the projection TV at temperatures below 5°C (41°F).
- If the projection TV is transported directly from a cold to a warm location, or if the room temperature changes suddenly, the picture may be blurred or show poor color. In this case, please wait a few hours to let the moisture evaporate before turning on the projection TV.
- To obtain the best picture, do not expose the screen to direct illumination or direct sunlight. It is recommended to use spot lighting directed down from the ceiling or to cover the windows that face the screen with opaque drapery. It is desirable to install the projection TV in a room where the floor and walls are not of a reflective material.

■■■ *Installing and Connecting the Projection TV (continued)*

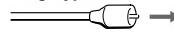
Connector Types

You may find it necessary to use some of the following connector types during set up.

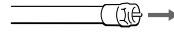
Coaxial cable

Standard TV cable and antenna cable

Plug Type

 Push into connection.

Screw-on Type

 Screw into connection.

S Video cable

High quality video cable for enhanced picture quality

 Align guides and push into connection.

Audio/Video cable

 Push into connection.

Video - Yellow

Audio (Left) - White

Audio (Right) - Red

Some DVD Players and DTV Receivers are equipped with the following three video connectors.

Y - Green

PB (Cb, Cb or B-Y) - Blue

PR (Cr, Cr or R-Y) - Red

8

S-Link/CONTROL S cable

Sony cable for S-Link and CONTROL S connections. These features are exclusive to Sony products and allow greater control of all Sony equipment.

 Push into connection.

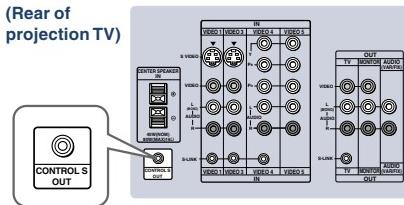
Note:

- For S-Link and CONTROL S connections, you can use the combined S-Link / CONTROL S cable provided with some Sony video equipment, or you can purchase a separate S-Link / CONTROL S cable (RK-G69HG).

About the CONTROL S OUT jack

To control other Sony equipment with the projection TV's remote control, connect the CONTROL S IN jack of the equipment to the CONTROL S OUT jack on the projection TV with the CONTROL S cable.

(Rear of projection TV)

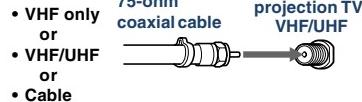


Making Connections

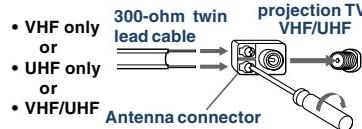
Connecting directly to a cable or an antenna

The connection you choose will depend on the cable found in your home. Newer homes will be equipped with standard coaxial cable (see **A**); older homes will probably have 300-ohm twin lead cable (see **B**); still other homes may contain both (see **C**). Use 75-ohm coaxial cable for improved picture quality (see **A**).

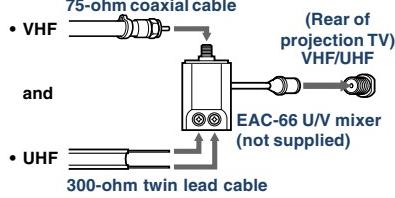
A

- VHF only or
 - VHF/UHF or
 - Cable
- 

B

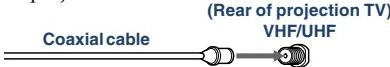
- VHF only or
 - UHF only or
 - VHF/UHF
- 

C



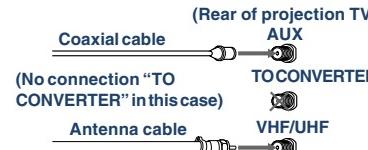
Cable or antenna

This is the simplest connection. Connection is made directly from the cable or antenna to the projection TV.



Cable and antenna

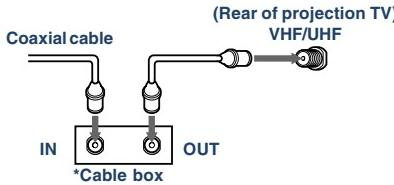
You may find it convenient to use the following set up if your cable provider does not feature local channels that you are able to receive using an antenna.



Connecting a cable box

Some pay cable TV systems use scrambled or encoded signals that require a cable box* only for certain channels (e.g. HBO, SHOWTIME, etc.)

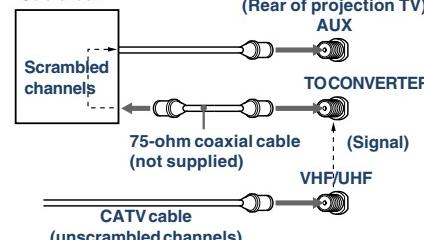
Also, set "Cable" to "On" in the Channel Set Up menu (page 39).



Cable box and cable

Some pay cable TV systems use scrambled or encoded signals requiring a cable box* only for certain channels (e.g. HBO, SHOWTIME, etc.)

*Cable box



For this set up, you can switch between scrambled channels (through your cable box), and normal (CATV) channels by pressing ANT on your remote control.

Notes:

- You may be able to program your Sony remote control to operate your cable box. (see "Operating a Cable Box or Satellite Receiver (SAT)" on page 57)
- During PIP, P&P, CHANNEL INDEX or Favorite Channel viewing, the AUX input can only be viewed in the main picture.

■ ■ ■ *Installing and Connecting the Projection TV (continued)*

Connecting a cable TV system/antenna to a VCR

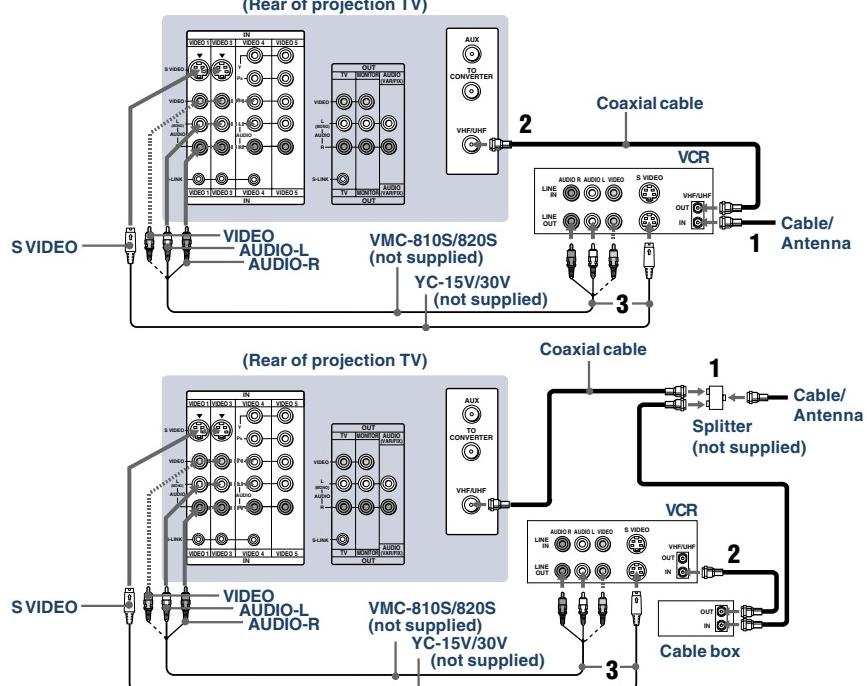
- 1 Attach the coaxial cable from the incoming cable connection or antenna to VHF/UHF IN on the VCR.
- 2 Using a coaxial cable, connect VHF/UHF OUT on the VCR to VHF/UHF on the projection TV.
- 3 Using AUDIO and S VIDEO* cables, connect AUDIO and S VIDEO OUT on the VCR to AUDIO and S VIDEO IN on the projection TV (White-AUDIO Left, Red-AUDIO Right**).

Connecting a VCR and projection TV to a cable box

- 1 Connect the single (input) jack of the splitter to the incoming cable connection, and connect the other two (output) jacks (using the coaxial cable) to IN on the cable box and VHF/UHF on the projection TV.
- 2 Using a coaxial cable, connect OUT on the cable box to VHF/UHF IN on the VCR.
- 3 Using AUDIO and S VIDEO* cables, connect AUDIO and S VIDEO OUT on the VCR to AUDIO and S VIDEO IN on the projection TV (White-AUDIO Left, Red-AUDIO Right**).

10

Disconnect all power sources before making any connections.



Disconnect all power sources before making any connections.

Note:

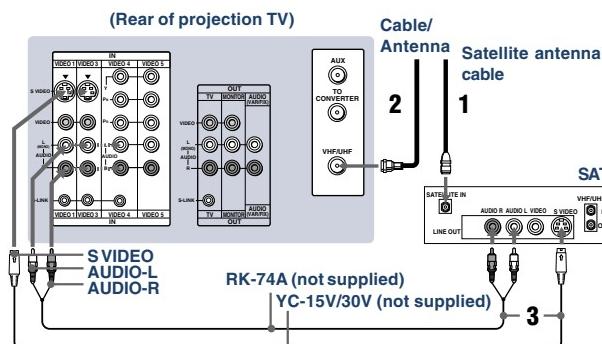
- To view scrambled channels through the cable box, select the video input which the cable box is connected to by pressing TV/VIDEO.
- * If your VCR is not equipped with S VIDEO, use a VIDEO cable (yellow) instead of the S VIDEO cable.
- ** If you are connecting a monaural VCR, connect only the single audio output to the left (MONO) input on the projection TV.

Connecting a satellite receiver (SAT)

- 1 Connect the cable from the satellite antenna to the satellite receiver.
- 2 Attach the coaxial cable from the incoming cable connection or antenna to VHF/UHF on the projection TV.
- 3 Using AUDIO and S VIDEO cables, connect AUDIO and S VIDEO OUT on the satellite receiver to AUDIO and S VIDEO IN on the projection TV (White-AUDIO Left, Red-AUDIO Right).

Note:

- To view input from the satellite receiver, select the video input which the satellite receiver is connected to by pressing TV/VIDEO on the remote control.



■■■ *Installing and Connecting the Projection TV (continued)*

Connecting a satellite receiver (SAT) and a VCR

- 1 Connect the cable from the satellite antenna to the satellite receiver.
- 2 Attach the coaxial cable from the incoming cable connection or antenna to VHF/UHF IN on the VCR.
- 3 Using a coaxial cable, connect VHF/UHF OUT on the VCR to VHF/UHF on the projection TV.
- 4 Using AUDIO and S VIDEO* cables, connect AUDIO and S VIDEO OUT on the satellite receiver to AUDIO and S VIDEO IN on the VCR.
- 5 Using AUDIO and S VIDEO* cables, connect AUDIO and S VIDEO OUT on the VCR to AUDIO and S VIDEO IN on the projection TV (White-AUDIO Left, Red-AUDIO Right).

*If your VCR is not equipped with S VIDEO, use a VIDEO cable (yellow) instead of the S VIDEO cable.

Note:

- To view input from the satellite receiver or VCR, select the video input which your satellite receiver or VCR is connected to by pressing TV/VIDEO on the remote control.

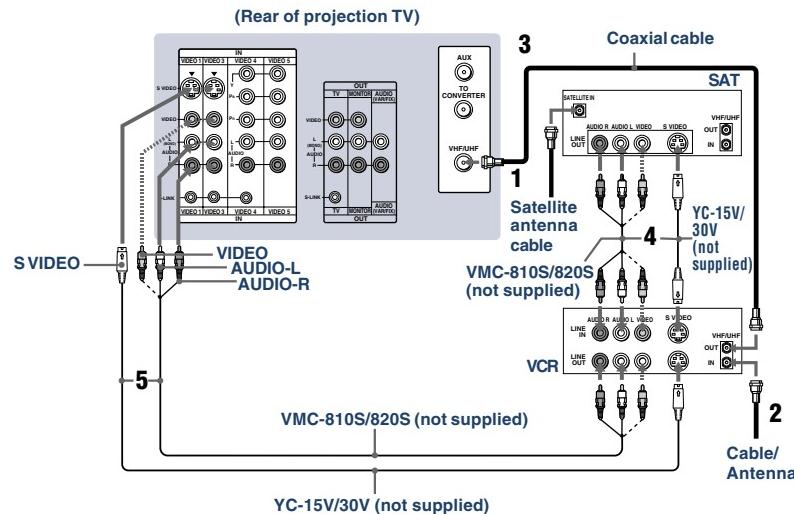
12

Connecting a DTV (digital television) receiver

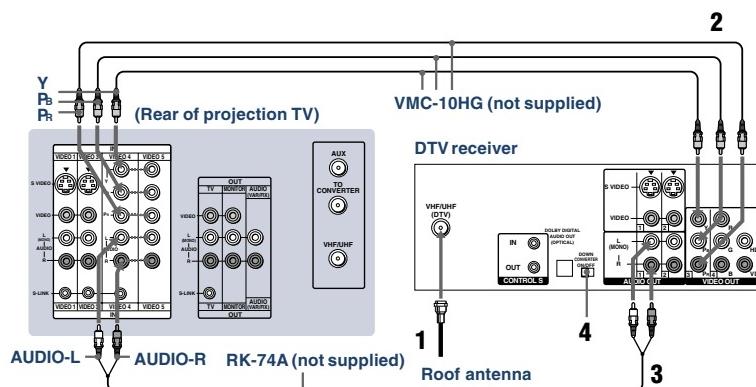
Before connecting, be sure to read the Operating Instructions of the DTV receiver.

- 1 Attach the coaxial cable from the roof antenna to VHF/UHF on the DTV receiver.
- 2 Using three yellow VIDEO cables, connect Y, Pb and Pr of VIDEO OUT on the DTV receiver to Y, Pb and Pr of VIDEO 4 or 5 IN on the projection TV.
- 3 Using an AUDIO cable, connect AUDIO OUT on the DTV receiver to AUDIO of VIDEO 4 or 5 IN on the projection TV (White-AUDIO Left, Red-AUDIO Right).
- 4 Set the DOWN CONVERTER ON/OFF switch on the DTV receiver to ON.

Disconnect all power sources before making any connections.



Disconnect all power sources before making any connections.



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■ ■ ■ *Installing and Connecting the Projection TV (continued)*

Connecting a camcorder

Use this connection to view a picture directly from your camcorder.

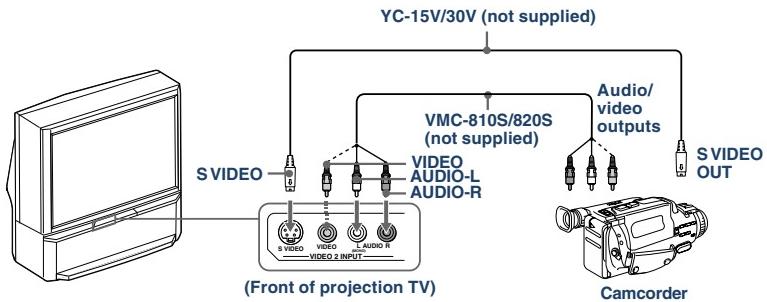
- 1 Using AUDIO and S VIDEO* cables, connect AUDIO and S VIDEO OUT on the camcorder to AUDIO and S VIDEO IN inside the drop-down panel on the front of the projection TV (White-AUDIO Left, Red-AUDIO Right**).

- 2 Press VIDEO 2 to select the video inputs from a camcorder.

* If your camcorder is not equipped with S VIDEO, use a VIDEO cable (yellow) instead of the S VIDEO cable.

** If you are connecting a monaural camcorder, connect only the single audio output to the left (MONO) input on the projection TV.

Disconnect all power sources before making any connections.



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Connecting two VCRs for tape editing

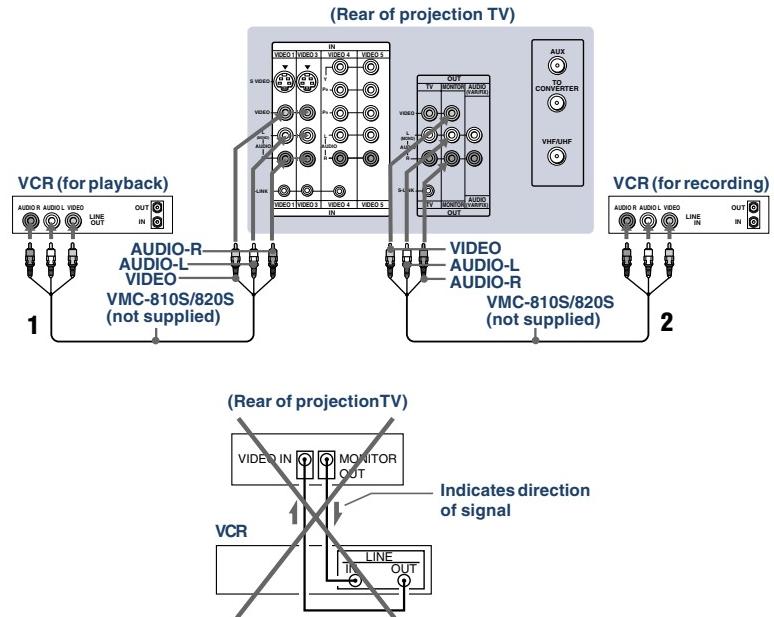
By connecting a second VCR to MONITOR OUT, you can record a program being played by the primary VCR to the second VCR or perform tape editing and dubbing.

- 1 Connect the VCR intended for playback using the connection instructions on page 6 of this manual.
- 2 Using an AUDIO/VIDEO cable, connect AUDIO and VIDEO IN on the VCR intended for recording to AUDIO and VIDEO OUT of MONITOR OUT on the projection TV.

Notes:

- Do not change the input signal while editing through MONITOR OUT.
- When connecting a single VCR to the projection TV: if VCR LINE OUT is connected to VIDEO IN on the projection TV, *do not* connect MONITOR OUT on the projection TV to the VCR LINE INPUT (see right). Doing so will cause program interference and other viewing problems.

Disconnect all power sources before making any connections.



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■■■ *Installing and Connecting the Projection TV (continued)*

Connecting a DVD Player (Upper illustration)

Using an AUDIO and S VIDEO cables, connect AUDIO and S VIDEO IN on the projection TV to AUDIO and S VIDEO OUT on the DVD Player (White-AUDIO Left, Red-AUDIO Right).

Connecting a DVD Player with component video output connectors (Lower illustration)

- 1 Using an AUDIO cable, connect AUDIO of LINE OUT on the DVD Player to AUDIO of VIDEO 4 or 5 IN on the projection TV (White-AUDIO Left, Red-AUDIO Right).
- 2 Using three yellow VIDEO cables, connect Y, Pb, and Pr of COMPONENT VIDEO OUT on the DVD Player to Y, Pb, and Pr of VIDEO 4 or 5 IN on the projection TV.

Notes:

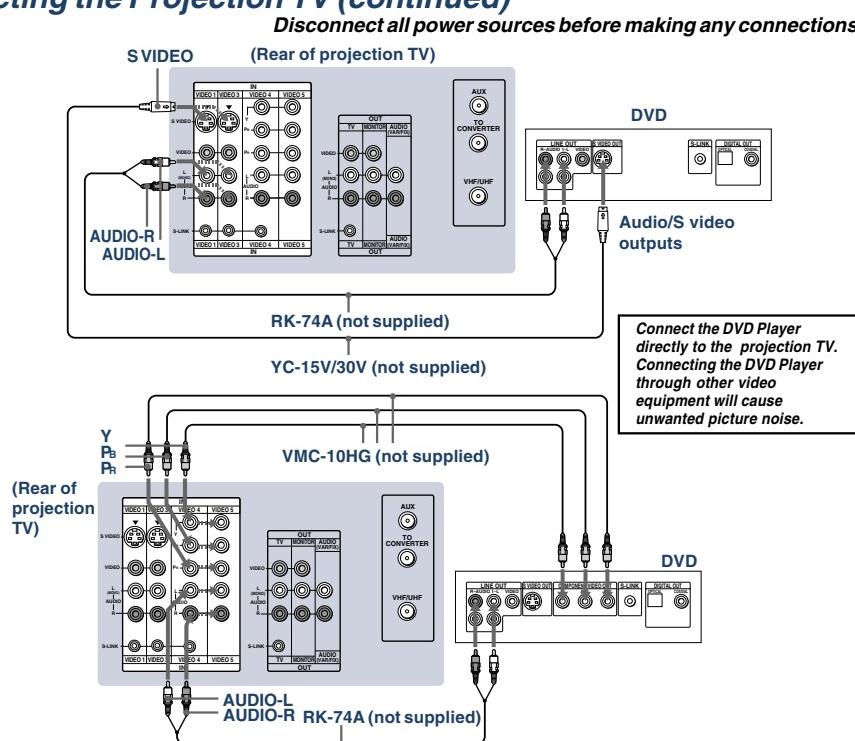
- Since the high quality pictures on a DVD disc contain a lot of information, picture noise may appear. In this case, adjust "Noise Reduction" in the Video menu. (see "Noise Reduction" on page 30)
- Some DVD Player terminals may be labeled differently. If so, connect as follows:
Connect Y (green) to Y.
Connect Pb (blue) to Cb, Cb or B-Y.
Connect Pr (red) to Cr, Cr or R-Y.

16

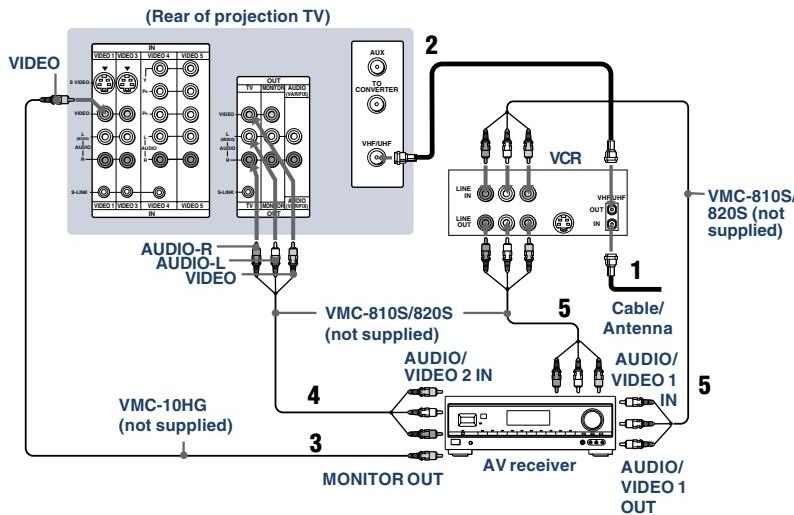
Connecting an AV receiver

For greater control of all audio and video equipment, connect an AV receiver.

- 1-2 Perform as described in "Connecting a cable TV system/antenna to a VCR" on page 6.
- 3 Using a VIDEO cable, connect VIDEO 1 IN on the projection TV to MONITOR OUT on the AV receiver.
- 4 Using an AUDIO/VIDEO cable, connect TV OUT on the projection TV to VIDEO 2 IN on the AV receiver.
- 5 Using an AUDIO/VIDEO cable, connect the video equipment to the AV receiver.



Disconnect all power sources before making any connections.



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■ ■ ■ *Installing and Connecting the Projection TV (continued)*

Disconnect all power sources before making any connections.

Connecting an audio system

For more dynamic sound, connect an audio system to the projection TV.

- 1 Using an AUDIO cable, connect AUDIO (VAR/FIX) OUT on the projection TV to one of the unused Line inputs (e.g. Tape-2, AUX1, etc.) on the stereo.
- 2 Set the stereo to the chosen Line input and use the Audio menu to set the audio output and switch the TV's speakers off. (see "Audio Out" and "Speaker" on page 36)

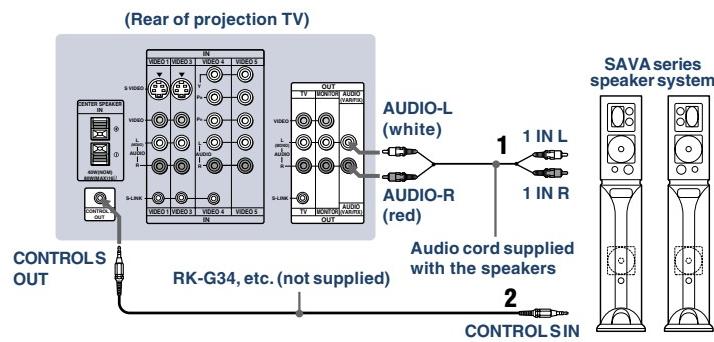
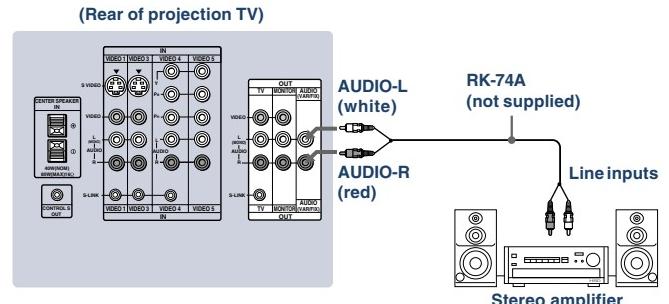
Note:

- You can adjust VOLUME, "Bass," "Treble," "Balance," "MTS/SAP" and "Effect" with the supplied remote control. The control items except VOLUME can be adjusted only when "Audio Out" is set to "Variable" in the Audio menu. (see "Audio Out" on page 36)

Connecting a Sony SAVA series speaker system

Use this connection to control the speaker's Dolby Pro Logic surround system and super woofer mode with the remote control. (see "Speaker" and "SAVA SP Control" on page 36)

18



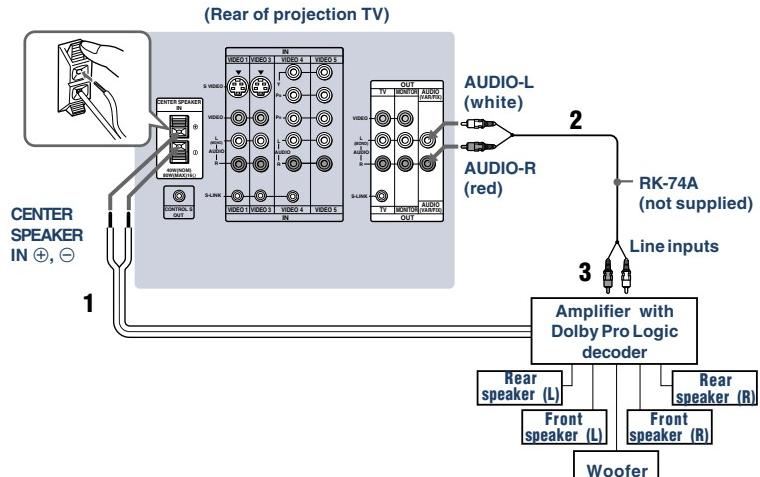
Disconnect all power sources before making any connections.

- 1 Using the AUDIO cable supplied with the speaker to AUDIO (VAR/FIX) OUT on the projection TV.
- 2 Using the CONTROL S cable, connect CONTROL S IN on the speaker to CONTROL S OUT on the projection TV.

Connecting an amplifier that supports Dolby Pro Logic decoder

If you use an amplifier with a Dolby Pro Logic decoder instead of the projection TV's audio system, you can still use the projection TV's center speaker.

- 1 Using the speaker cords (supplied with the amplifier), connect the speaker terminals on the amplifier to CENTER SPEAKER IN +/− on the projection TV.
- 2 Using an AUDIO cable, connect AUDIO (VAR/FIX) OUT on the projection TV to one of the unused Line inputs (e.g. Tape-2, AUX1, etc.) on the amplifier (White-AUDIO Left, red-AUDIO Right).
- 3 Set the amplifier to the chosen Line input and use the Audio menu to set "Speaker" to "Center" on the projection TV. (see "Speaker" on page 36)



■■■ *Installing and Connecting the Projection TV (continued)*

Disconnect all power sources before making any connections.

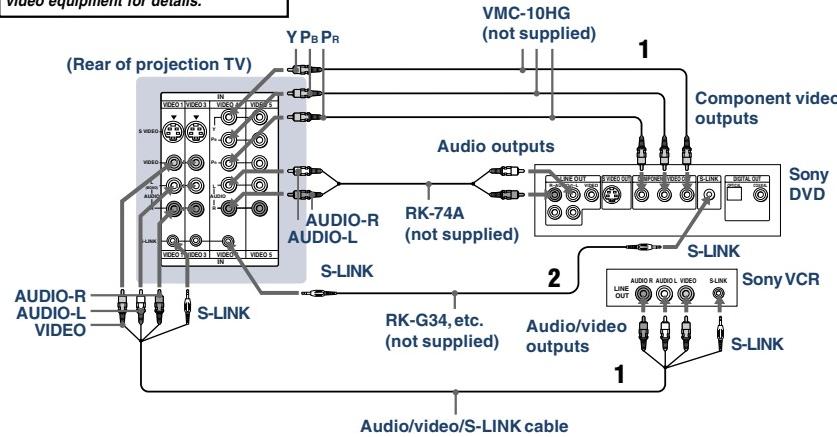
Using the S-Link Function

S-Link is a Sony innovation designed to make the Sony components work together. It allows you to automatically switch the projection TV's input mode to video when you press the play button on the Sony S-Link VCR.

Using the S-Link function without a Sony AV receiver

- 1 Connect the Sony VCR (DVD). (see "Connecting a cable TV system/antenna to a VCR" on page 10 or "Connecting a DVD Player with component video output connectors" on page 16)
- 2 Using an S-LINK cable, connect the S-LINK jacks on the VCR (DVD) and the projection TV. Ensure that both ends are seated firmly and that the projection TV's S-LINK jack is in the same row as the AUDIO/VIDEO cable extending from the Sony VCR (DVD).

Refer also to the Operating Instructions supplied with the VCR, satellite receiver, DVD player, LD player and other Sony video equipment for details.



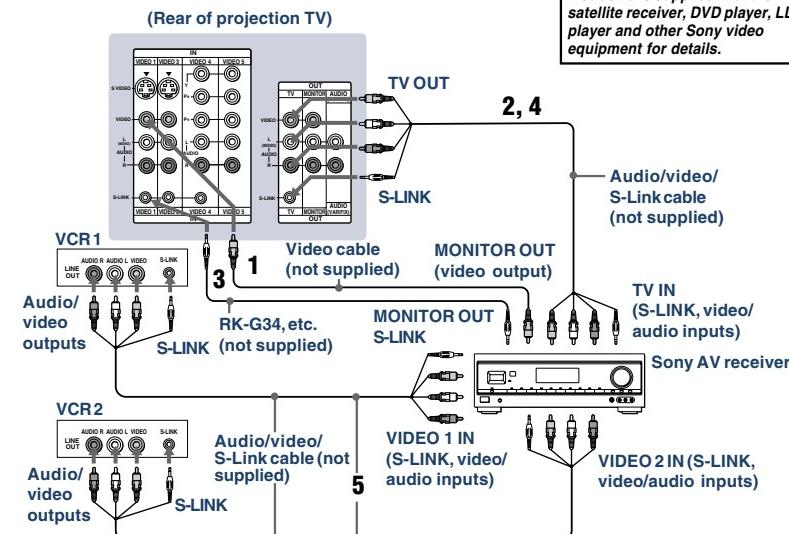
20

Using the S-Link function with a Sony AV receiver

- 1 Using a VIDEO cable, connect VIDEO 1 IN on the projection TV to MONITOR OUT on the Sony AV receiver.
- 2 Using an AUDIO/VIDEO cable, connect TV OUT on the projection TV to TV AUDIO and VIDEO IN on the AV receiver.
- 3 Using an S-LINK cable, connect S-LINK on the VIDEO 1 IN panel on the projection TV and S-LINK on MONITOR OUT on the AV receiver.
- 4 Using an S-LINK cable, connect S-LINK on the TV OUT panel on the projection TV to S-LINK on TV IN on the AV receiver.
- 5 Using AUDIO/VIDEO and S-LINK cables, connect the Sony video equipment to the AV receiver.
- 6 Use the Audio menu to set "Speaker" to "Off" or "Center." (see "Speaker" on page 36)
- 7 Press CH (CHANNEL) +/- to activate the S-Link function.

Disconnect all power sources before making any connections.

Refer also to the Operating Instructions supplied with the VCR, satellite receiver, DVD player, LD player and other Sony video equipment for details.



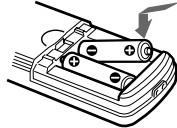
21

Basic Set Up

Using the Remote Control

Inserting the batteries

Insert two size AA (R6) batteries (supplied) by matching the + and – on the batteries to the diagram inside the remote control's battery compartment.



Notes:

- Remove the batteries to avoid damage from possible battery leakage whenever you anticipate that the remote control will not be used for an extended period.
- Handle the remote control with care. Avoid dropping it, getting it wet, or placing it in direct sunlight, near a heater or where the humidity is high.
- Your remote control can be programmed to operate most video equipment. (see "Operating Video Equipment" on page 55)

22

Setting Up the Projection TV Automatically

The AUTO SET UP feature will allow you to set the on-screen language and set all receivable channels.

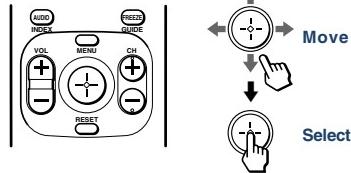
The AUTO SET UP feature does not apply for installations that use a cable box for all channel selection.

You can also set up the projection TV manually. (see "Using the Channel Set Up menu" on pages 38 and 39)

Notes:

- Before you perform AUTO SET UP again, make sure that the input from ANT (not AUX) is selected by pressing ANT until "AUX" does not appear next to the channel number.
- Perform this function during the day, with the antenna and/or cable properly connected, to ensure that all available channels will be broadcasting and receivable.
- When you perform AUTO SET UP, all the settings in the Video, and Audio menus are reset to the factory settings.

Using the remote control joystick



The supplied remote control has a joystick which moves the on-screen selector in four directions. In most cases, moving the joystick up, down, left or right will cause the selector to move in the selected direction.

In some cases, the selector may move in four directions according to the function. Pressing down on the center of the joystick (+) will activate the selected item.

You may also move the joystick right to activate a selected item. (There are some exceptions to this option.)

Adjusting Sliders

When menu items present a slider (— or —), move the joystick up, down, left or right to adjust the setting.

On Line Help/Instructions

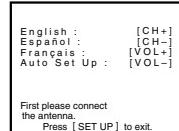
Several menu windows will provide prompts and instructions to assist you in navigating through the different functions.

Using the buttons on the front panel of the projection TV:

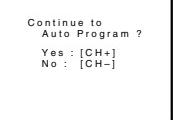


1 Press POWER to turn on the projection TV.

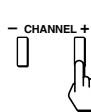
The AUTO SET UP screen appears.



3 Press VOLUME – to continue.



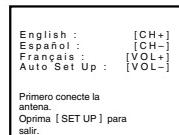
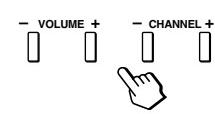
4 Press CHANNEL + to preset channels automatically.



"Auto Program" appears and the projection TV starts scanning and presetting channels automatically. While scanning, the received channel will be displayed on the sub screen. When all the receivable channels are stored, the lowest numbered channel is displayed.

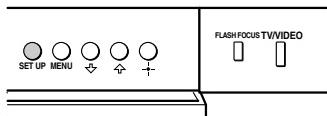
2 Press CHANNEL + to select English, CHANNEL – to select Español or VOLUME + to select Français.

The screen will change to reflect your choice.



■■■ Basic Set Up (continued)

To perform AUTO SET UP again



Press SET UP inside the drop-down panel on the projection TV and perform steps 2-4 on page 23.

Press SET UP again to exit.

Adjusting the Convergence Automatically (FLASH FOCUS)

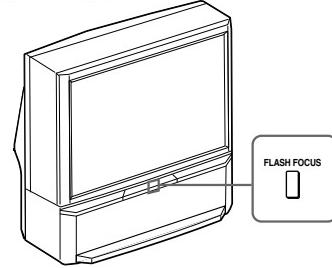
The projection tube image appears on the screen in three layers (red, green and blue). If they do not converge, the color is poor and the picture blurs.

Before you use your projection TV, be sure to adjust the convergence.

The FLASH FOCUS feature allows you to adjust the convergence automatically.

Tips ☀

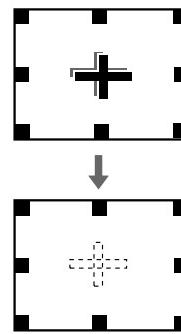
- It is recommended to perform FLASH FOCUS about 30 minutes after the projection TV is first turned on.
- You can also perform FLASH FOCUS using the Set Up menu on page 43.



Press FLASH FOCUS.



The cross pattern appears and FLASH FOCUS begins to work. The adjustment is completed when the cross pattern becomes white.



Note:

- FLASH FOCUS is canceled if you perform any other function while FLASH FOCUS is working.

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■■■ Using Your New Projection TV

Watching the TV

Many TV features can be accessed directly through the remote control. The following chart will explain the function of some buttons found on your remote control.

Using the White Labeled Buttons for Projection TV Operations	
TV (FUNCTION)	Activates the remote control for use with the projection TV.
TV POWER	Turns the projection TV on and off. If a video input indication (e.g., VIDEO 1, VIDEO 2) appears on the screen, press TV/VIDEO until a channel number appears.
(0)-(9) and ENTER	Use for direct channel selection. Press 0-9 to select a channel (for example, to select channel 10, press 1 and 0). The channel will change after 2 seconds, or you can press ENTER for immediate selection.
CH +/-	Press to scan through the channels (+ up or - down). Speed Surf 1 Press and hold CH + or - to change the channel number rapidly. 2 Release to display the desired channel.
VOL +/-	Press to adjust the volume (+ up or - down).
MUTING	Press to mute the sound. "Muting" will appear on the screen and will dim three seconds later. To restore sound, press again or press VOL +.

(continued)



REFER TO THE
ILLUSTRATION OF THE
REMOTE CONTROL ON THE
INSIDE FRONT COVER OF
THIS MANUAL AS YOU
REVIEW THIS CHART

PICTURE MODE

Press PICTURE MODE repeatedly to directly choose one of five different video modes that best suits the program you are watching.

Vivid: Select for enhanced picture contrast and sharpness.

Standard: Select to display a standard picture for normal viewing environments.

Movie: Select to display a finely detailed picture for low light environments.

Personal 1, Personal 2: Select to customize the "Picture Adjustment" of the Video menu according to your personal preference.

When you select "Movie," "Personal 1" and "Personal 2," you can also perform the "Picture Adjustment" (such as "Brightness," "Color," etc.) to suit your taste. For details, see "Mode" on page 34.

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■ ■ ■ Using Your New Projection TV (continued)

Using the White Labeled Buttons for Projection TV Operations	
TV/VIDEO	Press repeatedly to scroll through available video inputs: TV, VIDEO 1, VIDEO 2, VIDEO 3, VIDEO 4 and VIDEO 5 . If you select "Skip" as a "Video Label" in the Set Up menu, your projection TV will skip the video input you selected. (see "Video Label" on page 39)
JUMP	Press to alternate or <i>jump</i> back and forth between two channels. The projection TV will jump between the current channel and the last channel selected using the 0-9 buttons.
FREEZE (yellow labeled button)	This is useful when you need to copy down information that appears on the TV's screen. Press to <i>freeze</i> the desired picture. The frozen picture is displayed on the left of the screen while viewing the normal picture of the current channel on the right.  Press again to display the normal picture.
DISPLAY	Press to display the channel number, current time, channel caption (if set), and MTS mode (if SAP is selected). The SAP indication disappears and the other indications dim three seconds later. To turn the display off, press DISPLAY again.

Tip ☀

Some control buttons are located under the cover on the top of the remote control. They are indicated with (under the cover) in the table.

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Using the White Labeled Buttons for Projection TV Operations	
CC (under the cover)	Press repeatedly to scroll through available displays: XDS (Extended Data Service) Displays a network name, program name, program type, program length, program description, call letters and time of the show if the broadcaster offers this service. Caption Vision Displayed on the screen if the broadcaster offers this service. (see "Caption Vision" on page 42) No display "Off" appears and the display is canceled.
SLEEP (under the cover)	Press repeatedly until the projection TV displays the approximate time in minutes (30, 60, or 90) that you want the projection TV to remain on before shutting off automatically. Cancel by pressing until "Sleep Off" appears.
ANT (AUX input)	Press to change between the VHF/UHF input and the AUX input. (for detailed connection information, see "Cable and antenna" or "Cable box and cable" on page 9)
MTS/SAP (under the cover)	Press to scroll through the Multi-channel TV Sound (MTS) options: Stereo, SAP, Mono and Auto SAP . (see "MTS/SAP" on page 35)
①	Press to select an audio option: Trusurround, Simulated and Effect Off . (see "Effect" on page 35)
TV/VTR (under the cover)	Press when you are finished using a VCR and you want to switch to the TV input. The VCR power will remain on.
SYSTEM OFF (under the cover)	Press to turn off the projection TV and all other equipment connected with S-Link. (see page 20)



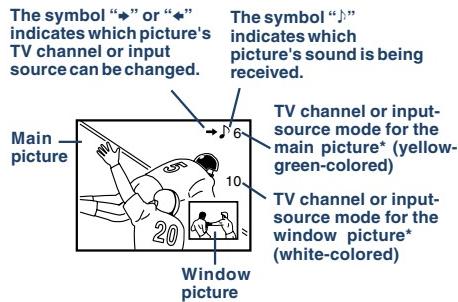
REFER TO THE
ILLUSTRATION OF THE
REMOTE CONTROL ON THE
INSIDE FRONT COVER OF
THIS MANUAL AS YOU
REVIEW THIS CHART

■■■ Using Your New Projection TV (continued)

Watching Two Programs at One Time — PIP

The Picture-in-Picture (PIP) feature allows you to view two channels simultaneously, one in the full size "main" picture and one in a smaller "window" picture.

You can move the window picture to any location on the screen. (Free Layout Picture-in-Picture)



* It will dim in about 3 seconds.

Tip

If you press RESET in PIP mode, the window picture will move to the bottom right (factory-preset location).

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Using the Yellow Labeled Buttons for PIP Operations	
	Press to display a window picture. Each time you press this button, the picture size will change (1/4 → 1/9 → 1/16 → no display). To close the window picture, press repeatedly until it disappears.
	Press to change the location of the window picture (counterclockwise) around the main picture.
	Press to select either the main or window picture in order to change the TV channel or video source using the white labeled buttons below. The symbol “→” (or “←”) will appear to indicate which picture's channel or input mode can be changed.
	To change the location of the window picture, move the joystick in any direction and release it when the picture is in the desired location.
	Press repeatedly to scroll through the available video inputs for the picture on which the symbol “→” (or “←”) is displayed. (see “TV/VIDEO” on page 26)

Using the Yellow Labeled Buttons for PIP Operations	
	Press to select the TV channel on which the symbol “→” is displayed. (for details, see “Watching the TV” on page 25) Speed Surf 1 Press and hold CH + or – to change the channel number rapidly. 2 Release to display the desired channel.
	Press to change between the VHF/UHF input and the AUX input for the picture on which the symbol “→” (or “←”) is displayed.
	Press to alternate sound between the main picture and the window picture. The symbol “♪” will appear for a few seconds to indicate which picture's sound is being received.
	This is useful when you need to copy down information of the main picture. Press to freeze the desired scene in the main picture. The frozen picture is displayed in the window picture while viewing the normal picture in the main picture. The window picture size is automatically changed to 1/4 if it was 1/9 or 1/16. Press again to resume normal PIP viewing.
	Press to switch the audio and video of the main picture and the window picture. Each time you press SWAP, the picture and sound of the two will be exchanged.



REFER TO THE
ILLUSTRATION OF THE
REMOTE CONTROL ON THE
INSIDE FRONT COVER OF
THIS MANUAL AS YOU
REVIEW THIS CHART

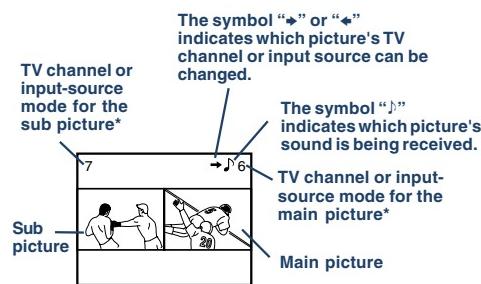
Note:

- If one of the pictures received through PIP is snowy, the entire screen may become unstable. In this case, erase the snowy channel. (see “Channel Skip / Add” on page 39)

■■■ Using Your New Projection TV (continued)

Watching Two Programs at One Time — P&P (Twin View™)

The Picture-and-Picture (P&P) feature allows you to view two channels simultaneously, both in a reduced size screen. The main picture will appear on the right.



Using the Yellow Labeled Buttons for P&P Operations	
	Press to display right (main) and left (sub) pictures. Press again to close the sub picture.
	Press to select either the right or left picture in order to change the TV channel or video source using the white labeled buttons below. The symbol “▶” (or “◀”) will appear to indicate which picture's channel or input mode can be changed.
 (white labeled button)	Press repeatedly to scroll through the available video inputs for the picture on which the symbol “▶” (or “◀”) is displayed. (see “TV/VIDEO” on page 26)
 or or (white labeled button)	<p>Press to select the TV channel on which the symbol “▶” (or “◀”) is displayed. (for details, see “Watching the TV” on page 21)</p> <p>Speed Surf</p> <ol style="list-style-type: none"> 1 Press and hold CH + or – to change the channel number rapidly. 2 Release to display the desired channel.
 (white labeled button)	Press to change between the VHF/UHF input and the AUX input for the picture on which the symbol “▶” (or “◀”) is displayed.

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Using the Yellow Labeled Buttons for P&P Operations	
	Press to alternate sound between the right and left pictures. The symbol “♪” will appear for a few seconds to indicate which picture's sound is being received.
	This is useful when you need to copy down information that appears on the TV's screen. Press to freeze both the right and left pictures. Press again to resume P&P viewing.
 (under the cover)	Press to switch the audio and video of the right and left pictures. Each time you press SWAP, the picture and sound of the two will be exchanged.



REFER TO THE
ILLUSTRATION OF THE
REMOTE CONTROL ON THE
INSIDE FRONT COVER OF
THIS MANUAL AS YOU
REVIEW THIS CHART

Notes:

- The sound of the left (sub) picture is monaural.
- Caption Vision is displayed for the right (main) picture only.
- If one of the pictures received through P&P is snowy, the entire screen may become unstable. In this case, erase the snowy channel. (see “Channel Skip/Add” on page 39)

■■■ Using Your New Projection TV (continued)

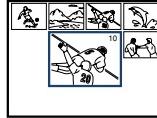
Using CHANNEL INDEX

You can use the CHANNEL INDEX feature to display multiple channels and select one directly.

Channels used for CHANNEL INDEX will come directly from the TV's list of receivable channels (those set during Auto Program or through the Channel Set Up menu).

1 Press .

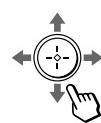
The current channel will be reduced in size and displayed in the center of the screen in normal motion picture format. The first twelve receivable channels will appear one after another, clockwise, around the center picture. These small pictures are updated in intervals of one second. The channel number and channel caption (if set) on the second and later appearances will dim.



A yellow-colored frame will appear to indicate current channel selection.

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- 2 Move the joystick in any direction to move the yellow frame to the picture that you wish to view.



3 Press .

The selected picture will be enlarged for normal viewing.



To cancel CHANNEL INDEX

Press  again, or select a TV channel using the 0-9 and ENTER buttons.

Tips

- To cycle through the receivable channels at a time, press CH +/−.
- To freeze the center picture, press FREEZE. Press it again to resume normal center picture viewing.

Notes:

- The projection TV will continually update each of the surrounding pictures while the CHANNEL INDEX screen is displayed.
- Sound will only be heard from the center picture.
- If one of the pictures received through CHANNEL INDEX is snowy, the entire screen may become unstable. In this case, erase the snowy channel. (see "Channel Skip / Add" on page 39)
- If you leave the CHANNEL INDEX screen displayed for about 20 minutes without any additional operation, CHANNEL INDEX is canceled and the normal picture reappears.

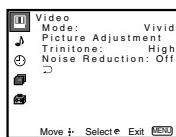
■■■ Adjusting Your SET UP (menus)

Learning Menu Selection

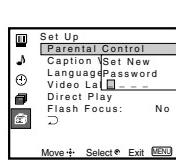
Use the MENU button to access a menu and use the joystick to alter the settings. Use the following example to learn how to modify settings.

1 Press the MENU button.

The main menu appears.



2 Move the joystick up or down to highlight the desired menu and press (press down on the center of the joystick) to activate it.



You may also move the joystick right to activate your selection.

- 3 Move the joystick up or down to highlight the desired option.

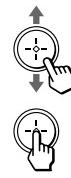


- 4 Press  (press down on the center of the joystick).

Options for your selection (Pop-up menu or Adjusting menu) will be displayed.



- 5 Move the joystick up or down to make your selection and press  to activate it. The previous screen will reappear.



Some adjustment menus may require further operations. For details, see each menu option.

To return to the previous screen (except for the slider adjustment menus), choose "D" at the bottom of the menu and press  or move the joystick left.

- 6 Once you have completed all menu corrections, press MENU to exit the menu screens.



To exit from the menus at any time

Press MENU.

Tip

You can also use the MENU, / and / buttons inside the front drop-down panel of the projection TV for the menu selection.

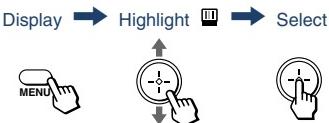
■ ■ ■ Adjusting Your SET UP (menus) (continued)

■ Using the Video Menu



For detailed information on using the remote control to modify menu settings, refer to "Learning Menu Selection" on page 33.

To select the Video □ menu:



To restore the factory settings

Press RESET on the remote control while the Video menu is selected. To restore each "Mode" to the factory setting, press RESET after selecting the mode to be reset.

Mode Customized picture viewing

You can choose one of five different video modes that best suits the program you are watching. You can also perform the "Picture Adjustment" (such as "Brightness," "Color," etc.) for "Movie," "Personal 1" or "Personal 2" to suit your taste.
Vivid: Select for enhanced picture contrast and sharpness.
Standard: Select to display a standard picture for normal viewing environments.
Movie: Select to display a finely detailed picture for low light environments.
Personal 1, Personal 2: Select to customize the "Picture Adjustment" of the Video menu according to your personal preference.
Press PICTURE MODE on the remote control for direct selection of a "Mode" setting.

Picture Adjustment Picture adjustment

First select "Movie," "Personal 1" or "Personal 2" from "Mode," then highlight the desired option using the joystick and press \oplus to display the adjusting slider of the selected option.
Picture: Adjust slider right (up) to increase picture contrast; left (down) to decrease it.
Brightness: Adjust slider right (up) to brighten the picture; left (down) to darken it.
Color: Adjust slider right (up) to increase color intensity; left (down) to decrease it.
Hue: Adjust slider right (up) to increase the green tones; left (down) to increase the red tones.
Sharpness: Adjust slider right (up) to sharpen the picture; left (down) to soften it.



Trinitone White intensity adjustment

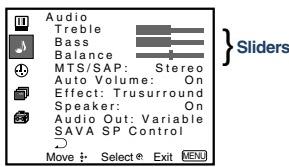
High: Select to give the white colors a blueish tint.
Medium: Select to give the white colors a neutral tint.
NTSC Standard: Select to give the white colors a reddish tint.

Noise Reduction Noise reduction

Select **On** to reduce picture noise.
Select **Off** to cancel the feature.
"Noise Reduction" can be set separately from the "Mode" settings of the Video menu.

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♪ Using the Audio Menu



For detailed information on using the remote control to modify menu settings, refer to "Learning Menu Selection" on page 33.

To select the Audio ♪ menu:



To restore the factory settings

Press RESET on the remote control while the Audio menu is selected.

Treble Sound adjustment

Adjust slider right (up) to increase high pitched sounds.
Adjust slider left (down) to decrease high pitched sounds.

Bass Sound adjustment

Adjust slider right (up) to increase low pitched sounds.
Adjust slider left (down) to decrease low pitched sounds.

Balance Sound adjustment

Adjust slider right (up) to emphasize right speaker volume.
Adjust slider left (down) to emphasize left speaker volume.

MTS/SAP Enjoy stereo, bilingual and mono programs.

When the sound is intermittent due to poor reception conditions, select "Stereo" or "SAP."
Stereo: Select for stereo reception when viewing a program broadcast in stereo.
SAP: Select to listen to a bilingual broadcast. (non-SAP programs will be muted when this feature is selected)
Mono: Select for mono reception. (use to reduce noise during stereo broadcasts)
Auto SAP: Select to listen to SAP when a SAP program is broadcast and return to stereo reception automatically for non-SAP programs.
Quick MTS access: Press MTS/SAP on the remote control to cycle through the "MTS/SAP" options as follows: Stereo → SAP → Mono .

Auto Volume Adjust the sound level.

On: Sound output coming from TV speakers have the volume level equalized for all channel audio inputs when broadcasts have different sound transmission levels.
Off: Sound output coming from the TV speakers varies according to the received channel.

Effect Customizes surround sound effects based on the program's audio type.

"Effect" can only be set when "Speaker" is set to "On" or "Off."
Trusurround: Produces a virtual surround effect for Dolby-surround encoded programs.
Simulated: Adds a surround-like effect to mono programs.
Off: Normal stereo or mono reception.
Quick Effect access: Press Effect on the remote control to cycle through the "Effect" options as follows: Trusurround → Simulated → Effect Off.

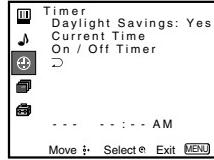
(continued) 35

■ ■ ■ Adjusting Your SET UP (menus) (continued)

Speaker <i>Custom selection of audio output source</i>	On: Select to listen to the sound from the projection TV speakers alone. Off: Select to turn off the projection TV speakers and listen to the projection TV's sound only through an external audio system's speakers. SAVA SP: Select to turn off the projection TV speakers and listen to the projection TV's sound only through the Sony SAVA series speaker system. You can adjust volume, muting, "Surround Mode," and "Super Woofer Mode" with the projection TV's remote control. (see "SAVA SP Control" below) Center: Select to use the projection TV as center speaker when you connect an amplifier with a Dolby Pro Logic decoder. (see "Connecting an amplifier that supports Dolby Pro Logic decoder" on page 19)
Audio Out <i>Easy control of volume adjustment</i>	"Audio Out" can only be set when "Speaker" is set to "Off." Fixed: Sound output is held at a fixed level through the audio system. Use the AV receiver's remote control to adjust the volume. Variable: Sound output varies according to the TV settings. Useful when you want to use your remote control to control the output of a separate audio system.
SAVA SP Control <i>Controls Sony SAVA speaker's mode.</i>	"SAVA SP Control" can only be set when Sony SAVA speaker system is connected to the AUDIO (VAR/FIX) OUT connectors and "Speaker" is set to "SAVA SP." (see "Speaker" above) You can also adjust the SAVA speaker's volume using VOL +/- of the projection TV's remote control. Surround Mode: Select to activate the SAVA Speaker's surround mode. Super Woofer Mode: Select to activate the SAVA Speaker's super woofer mode.

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⌚ Using the Timer Menu

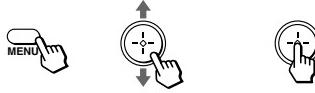


After setting the clock you can use the timer to turn the projection TV on and off.

For detailed information on using the remote control to modify menu settings, refer to "Learning Menu Selection" on page 33.

To select the Timer ⌚ menu:

Display → Highlight ⌚ → Select



Tip ☀

Set daylight saving time before setting the clock. Any loss of power will cause these settings to be erased.

Daylight Savings <i>Automatically adjusts the time.</i>	Spring: Select Yes to compensate for Daylight Saving Time. The current time automatically moves ahead one hour. Fall: Select No at the end of Daylight Saving Time. The current time moves back one hour.
Current Time <i>Necessary for the Timer.</i>	<ol style="list-style-type: none"> Press ⊕, then move the joystick up or down until the current day (Sun - Sat) is displayed, and press ⊕. Move the joystick up or down until the current hour (1-12) and AM/PM is displayed, and press ⊕. Move the joystick up or down until the current minute (00-59) is displayed, and press ⊕. <p>The clock has now started. Press MENU to exit.</p>
On/Off Timer <i>Wake up or scheduled viewing.</i>	<ol style="list-style-type: none"> Move the joystick up or down until the desired day or range of days (Every Sun-Sat, Every Mon-Fri, Sunday, Monday, ..., Saturday, Every Sunday, ..., Every Saturday) is displayed, and press ⊕. Move the joystick up or down until the time (hours and minutes) that you want the projection TV to remain on is displayed, and then press ⊕. Move the joystick up or down to set the time duration (maximum of 6 hours) and press ⊕. Move the joystick up or down to select the desired channel and press ⊕. The timer is now set. The TIMER/STAND BY indicator on your projection TV will be lit. <p>Press MENU to exit. To cancel your timer setting, press RESET while in the On/Off Timer window. Performing Auto Program will erase all Timer settings.</p>

■ ■ ■ Adjusting Your SET UP (menus) (continued)

■ Using the Channel Set Up Menu



For detailed information on using the remote control to modify menu settings, refer to "Learning Menu Selection" on page 33.

To select the Channel Set Up menu:

Display → Highlight → Select



Channel Caption

Easy recognition of the channel you are watching

You can add a caption for up to 32 channels of VHF/UHF input.

With the Channel Caption window open:

- 1 Press \oplus and then move the joystick up or down to select the desired channel. You can view the channel that is selected with the Channel Caption menu in the sub screen.
- 2 Press \oplus .
- 3 Move the joystick up or down to display the first letter or number of the caption and press \oplus to select it. Repeat until up to five digits are selected.
- 4 Press \oplus .

To erase a caption, press RESET.



Favorite Channel

User's favorite channels

The Favorite Channel feature enables easy access to the eight channels that you preset (or the last channel that you were watching). (for details on how to set up this feature, see "Setting and Selecting Favorite Channel" on page 40)

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Channel Skip/Add <i>Skips unnecessary channels.</i>	<p>After AUTO SET UP, you can erase unnecessary channels from the channel preset memory.</p> <p>With the Channel Skip/Add window open:</p> <ol style="list-style-type: none"> 1 Move the joystick up or down to select the desired channel. You can view the channel that is selected with the Channel Skip/Add menu in the sub screen. You can also use CH +/- or 0-9 and ENTER buttons. 2 Press \oplus. 3 Move the joystick up or down to select Skip, and press \oplus. The selected channel will be erased. If you want to re-enter the skipped channel, follow the steps above and select Add.
Auto Program <i>Automatic channel presetting</i>	<p>Select Yes to signal the projection TV to automatically program all receivable channels. When all the receivable channels are stored, the lowest numbered channel is displayed.</p> <p>Select No to cancel Auto Program.</p>
Cable <i>Cable system setting</i>	<p>Select On if your projection TV is connected to a cable system.</p> <p>Select Off if your projection TV is connected to an antenna.</p>

■ ■ ■ Adjusting Your SET UP (menus) (continued)

Setting and Selecting Favorite Channel

The Favorite Channel feature of your projection TV enables easy access to the eight channels that you preset (or the last channel that you were watching).

Your Favorite Channel options can be set automatically or manually.

The factory setting for "Favorite Channel" is "Auto."

When "Favorite Channel" is set to "Auto," the last eight channels selected with the 0-9 buttons will be set as Favorite Channel options. If you want to input your own selections as Favorite Channel settings, set to "Manual."

Setting Favorite Channel manually

- 1 Select "Favorite Channel" from the Channel Set Up menu. (see page 38)



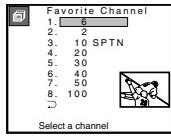
40

Changing Favorite Channel choices

You have the option of returning to the Favorite Channel screen to adjust any of your favorite channel choices.

Simply proceed as described in "Setting Favorite Channel manually" (skip step 2 if "Manual" is already selected).

When you reach step 3, select the position you want to change and press \oplus . Move the joystick up or down to select a new channel.



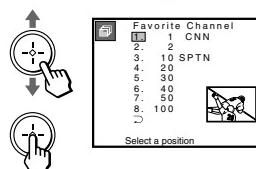
Press MENU when you are done.

Note:

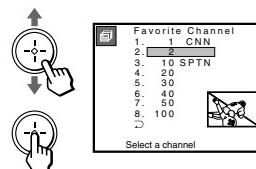
- The Favorite Channel feature is not available for the picture input from AUX.

- 2 Move the joystick up or down to select "Manual" and press \oplus .

The Favorite Channel menu will appear. If you set Channel Caption names (e.g. CNN, HBO), they will also be displayed. (see "Channel Caption" on page 38)

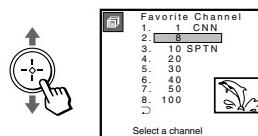


- 3 Move the joystick up or down to select a position (1-8), and press \oplus .



- 4 Move the joystick up or down to select a channel.

You have now selected a favorite channel.



- 5 Press \oplus and use the joystick to program other favorite channels. (Follow steps 3 and 4.)

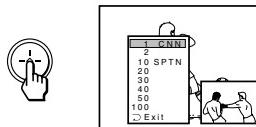
- 6 Press MENU when you have finished. Your favorite channels are now ready for use.

Using Favorite Channel

You can use the Favorite Channel feature to directly select the channel you want to watch.

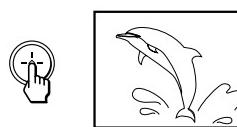
- 1 Press \oplus once.

The favorite channel menu and a window picture will be superimposed over the current channel. The window picture displays the channel selected from the menu.



- 3 Press \oplus to select the channel.

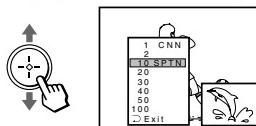
The selected channel will be displayed for normal viewing.



To cancel the favorite channel menu before selecting a channel, move the joystick up or down to select "Exit" at the bottom of the menu and press \oplus .

- 2 Move the joystick up or down to select the channel that you wish to view from the menu.

The picture of the selected channel will be displayed in the window picture.



■ ■ ■ Adjusting Your SET UP (menus) (continued)

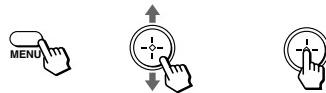
Using the Set Up Menu



For detailed information on using the remote control to modify menu settings, refer to "Learning Menu Selection" on page 33.

To select the Set Up menu:

Display → Highlight → Select



Parental Control <i>Blocks programs unsuitable for children.</i>	Allows you to block TV programs that you feel are unsuitable for your children. (see "Using the Parental Control Feature" on page 44 for details)
Caption Vision <i>Television closed caption display</i>	<p>Some programs are broadcast with Caption Vision. To display Caption Vision, select CC1, CC2, CC3, CC4, TEXT1, TEXT2, TEXT3 or TEXT4 from the menu. Then press the CC button until "Caption Vision" is displayed.</p> <p>CC1, CC2, CC3 or CC4 displays a printed version of the dialogue or sound effects of a program. (The mode should be set to CC1 for most programs.) TEXT1, TEXT2, TEXT3, or TEXT4 displays network/station information presented using either half or the whole screen.</p> <p>Notes:</p> <ul style="list-style-type: none"> Poor reception of TV programs can cause errors in Caption Vision and XDS. Captions may appear with a white box or other errors instead of the intended text. XDS, Caption Vision, and the status display cannot be used at the same time.
Language <i>Preferred language</i>	Select from available languages (English , Español or Français) to display all menus in your language of choice.

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Video Label <i>Easy recognition of connected equipment (e.g. SAT, VHS, etc.)</i>	<p>This feature allows you to label each input mode so that you can easily identify the connected equipment (e.g. you can label VIDEO 1 IN as VHS).</p> <p>With the Video Label window open:</p> <ol style="list-style-type: none"> Move the joystick up or down to select the input mode you want to label and press ⊕. Move the joystick up or down to select the label and press ⊕. <p>Video Label Options:</p> <p>VIDEO 1: VIDEO 1, VHS, 8mm, Beta, LD, SAT, DVD, AV RECEIVER, DTV, Skip VIDEO 2/3: VIDEO 2/VIDEO 3, VHS, 8mm, Beta, LD, SAT, DVD, DTV, Skip VIDEO 4/5: VIDEO 4/VIDEO 5, SAT, DVD, DTV, Skip</p> <p>If you select "Skip," your projection TV will skip this connection when you scan through video sources using the TV/VIDEO button.</p>	
Direct Play <i>Easy operation of a connected VCR</i>	<p>This feature allows you to switch the input mode from the TV to a Sony VCR (MDP or DVD) and start playing by only pressing the ▶ (playback) button on the remote control. You have to set the VTR1/2/3/DVD/MDP switch on the remote control (e.g., you connect your VCR to the VIDEO 3 IN jacks and set the VTR1/2/3/DVD/MDP switch to VTR 3).</p> <p>With the Direct Play window open:</p> <ol style="list-style-type: none"> Move the joystick up or down to select the input to which your video equipment is connected, and press ⊕. Move the joystick up or down to select the position of the VTR 1/2/3/DVD/MDP switch, and press ⊕. 	
Flash Focus <i>Automatic convergence adjustment</i>	Select Yes and press ⊕ to start Flash Focus adjustment. When the adjustment is completed, the cross pattern on the screen becomes white. (for details, see page 24) Select No to cancel Flash Focus.	

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■ ■ ■ Adjusting Your SET UP (menus) (continued)

Using the Parental Control Feature

The TV programs and movies shown on TV are given a rating signal based on the following rating systems.

In U.S.A.: U.S. Television Parental Guidelines to rate television programs (U.S. TV ratings), and Motion Picture Association of America (MPAA) Guidelines to rate movies including those shown on TV (movie ratings)

In Canada: Canadian English Language ratings to rate television programs in English, and Canadian French Language ratings to rate those in French.

To block programs you feel are unsuitable for your children, you need to set the TV for the desired rating systems. Sony's predetermined ratings are also available.

See pages 51 to 54 for a description of the ratings.

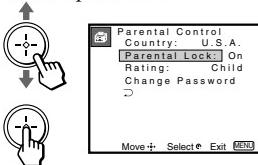
The Parental Control feature of the TV functions by receiving the rating signal from your local broadcasting station or cable service provider.

Activating the Parental Control Feature

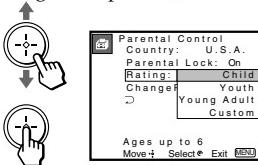
First, set a password, then select your desired rating from Sony's predetermined ratings.

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- 7 Move the joystick up or down to select "On," and press \oplus .



- 8 Move the joystick up or down to select "Rating," and press \oplus .



- 9 Move the joystick up or down to select a desired rating ("Child," "Youth" and "Young Adult"), and press \oplus .

If you want to select the ratings from "Custom," go to step 4 of "Selecting a Custom Rating in U.S.A." on page 46 or "Selecting a Custom Rating in Canada" on page 49, according to your "Country" setting.

- 10 Press MENU to exit the menu.

- 1 Select "Parental Control" from the Set Up menu. (see page 42)

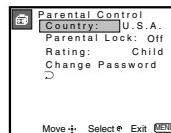


- 2 Enter a four digit password* using the 0-9 buttons.

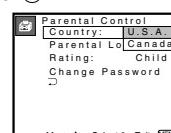


* Do not enter "4357" corresponding to "HELP" on a phone number pad. (see page 51)

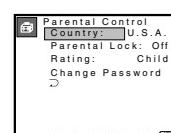
- 3 To confirm the password, re-enter the same password with the 0-9 buttons. Your password is stored and the Parental Control menu automatically appears. If you want to change the password, see page 50.



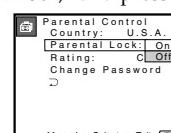
- 4 Make sure that "Country" is highlighted, and press \oplus .



- 5 Move the joystick up or down to select your country (U.S.A. or Canada), and press \oplus .

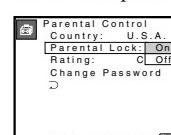


- 6 Move the joystick up or down to select "Parental Lock," and press \oplus .



(continued)

- 7 Move the joystick up or down to select "On," and press \oplus .



- 8 Move the joystick up or down to select "Off," and press \oplus .

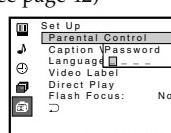


- 9 Press MENU to exit the menu.

To deactivate the Parental Control feature

If you set "Parental Lock" in the Parental Control menu to "Off," the Parental Control feature will not work and you can view all TV programs and movies shown on TV.

- 1 Select "Parental Control" from the Set Up menu. (see page 42)

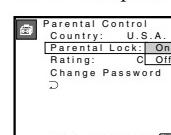


- 2 Enter your four digit password using the 0-9 buttons.

The Parental Control menu appears.



- 3 Move the joystick up or down to select "Parental Lock," and press \oplus .



- 4 Move the joystick up or down to select "Off," and press \oplus .



- 5 Press MENU to exit the menu.

■ ■ ■ Adjusting Your SET UP (menus) (continued)

To unlock the Parental Control feature temporarily

When you select a Parental Control program, no sound or picture except for a channel number will appear. The  indicator is displayed. To view the program, follow the steps below.

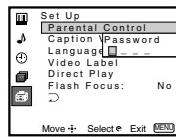
- 1 Press ENTER to display the "Password" screen.
- 2 Enter your password using the 0–9 buttons. Parental Control will be canceled ("Parental Lock" set to "Off") until you turn your projection TV off.

Selecting a Custom Rating in U.S.A.

If you want to select the ratings to be blocked from "Custom" once you have activated the Parental Control feature (page 45), follow the procedure below.

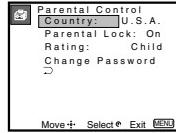
For a detailed description of each rating, see "What the Ratings Mean" on pages 51 to 53.

- 1 Select "Parental Control" from the Set Up menu. (see page 42)

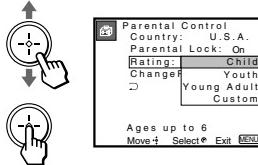


- 2 Enter your four digit password using the 0–9 buttons.

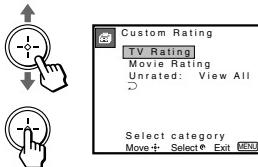
The Parental Control menu appears. Make sure that "Country" is set to "U.S.A."



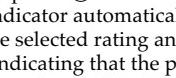
- 3 Move the joystick up or down to select "Rating," and press .



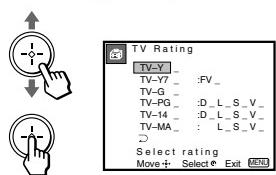
- 4 Move the joystick up or down to select "Custom," and press .



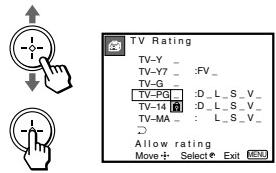
- 5 Move the joystick up or down to select "TV Rating," and press .



- 6 Move the joystick up or down to select the TV rating to be blocked, and press .



- 7 Move the joystick up or down to select "Allow rating," and press .



Some ratings have additional content ratings called "extenders." The extenders are defined as follows: D (sexually suggestive Dialog), FV (Fantasy Violence), L (coarse Language), S (Sexual situations) and V (Violence). By setting the extenders, you can define additional viewing limits. For more details of extenders, see page 53.

All of the extenders included in the selected ratings will be blocked. If you wish to allow any of them to be viewed, go to step 8.

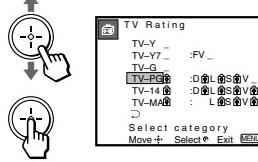
- 8 Move the joystick left or right to select the extender to be viewed, and press .



- 9 Move the joystick up or down to select "—" and press .

"—" appears beside the selected extender, indicating that the programs that match the extender can be viewed.

If you select ""  is displayed to show that the programs that match the extender will be blocked again.



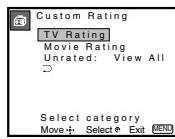
(continued)

■ ■ ■ Adjusting Your SET UP (menus) (continued)

10 Repeat steps 8 and 9 for other extenders.

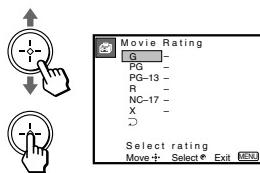
All programs that match the ratings you select and higher, except for the extenders that were canceled, will be blocked.

11 After setting of the TV rating is complete, move the joystick up or down to select "▷," and press \oplus .

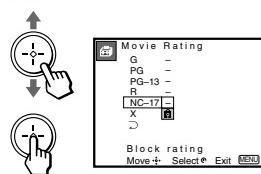


Second, select a movie rating.

12 Move the joystick up or down to select "Movie Rating," and press \oplus .

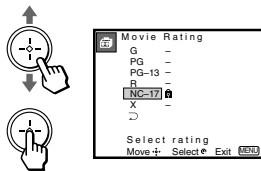


13 Move the joystick up or down to select the movie rating to be blocked, and press \oplus .



14 Move the joystick up or down to select "▷," and press \oplus .

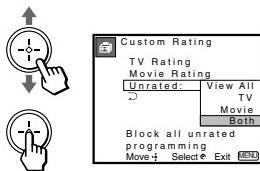
The \blacksquare indicator automatically appears beside the selected rating and all "higher" ratings, indicating that the programs that match the ratings will be blocked.



15 Press MENU to exit the menu.

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3 Move the joystick up or down to select the type of programs to be blocked, and press \oplus .



To block ...	Select ...
No program (to view any unrated TV program and movie)	View All
Unrated TV programs	TV
Unrated movies	Movie
Unrated TV programs and movies	Both

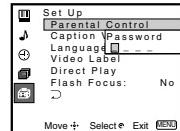
4 Press MENU to exit the menu.

Selecting a Custom Rating in Canada

If you want to select the ratings to be blocked from "Custom" once you have activated the Parental Control feature (page 45), follow the procedure below.

For a detailed description of each rating, see "What the Ratings Mean" on pages 53 and 54.

1 Select "Parental Control" from the Set Up menu. (see page 42)

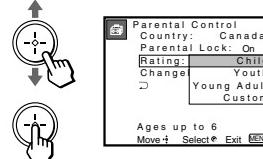


2 Enter your four digit password using the 0-9 buttons.

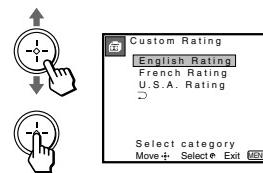
The Parental Control menu appears. Make sure that "Country" is set to "Canada."



3 Move the joystick up or down to select "Rating," and press \oplus .



4 Move the joystick up or down to select "Custom," and press \oplus .

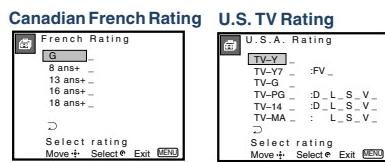
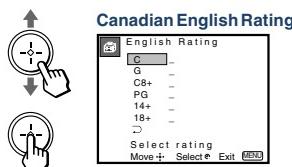


(continued)

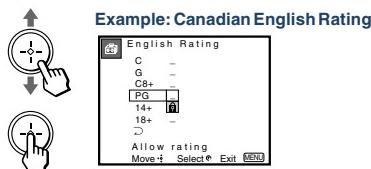
■ ■ ■ Adjusting Your SET UP (menus) (continued)

- 5 Move the joystick up or down to select the rating you want to block, and press \oplus .

The selected rating appears.



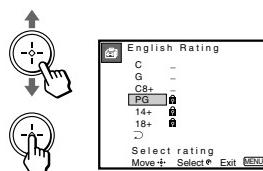
- 6 Move the joystick up or down to select the TV rating to be blocked, and press \oplus .



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- 7 Move the joystick up or down to select “ \ominus ,” and press \oplus .

The \ominus indicator automatically appears beside the selected rating and all “higher” ratings, indicating that the programs that match the ratings will be blocked.

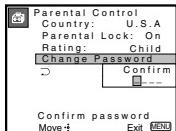


Some U.S. TV ratings have additional content ratings called “extenders,” such as D, FV, L, S and V. By setting the extenders, see steps 7 to 10 of “Selecting a Custom Rating in U.S.A.” on pages 47 and 48. For more details of extenders, see page 53.

All of the extenders included in the selected ratings will be blocked. If you wish to allow any of them to be viewed, go to step 8.

- 8 Press MENU to exit the menu.

- 4 Enter a new four digit password using the 0–9 buttons.



- 5 Enter the password set in step 4 again to confirm.

If you entered it incorrectly, “Password incorrect” appears.

Re-enter the correct password.

- 6 Press MENU to exit the menu.

If you have forgotten your password

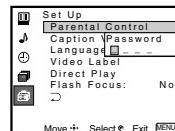
In step 2 of “Changing the Password” on page 46, enter the master password “4357” (corresponding to “HELP” on a phone number pad). You can then store a new password.

Notes:

- If you entered “4357” as your password the first time, you cannot store a new password. (see step 2 of “Activating the Parental Control Feature” on page 44)
- When you select a Parental Control program and the \ominus indicator is displayed on the screen, you cannot view that program even if you enter “4357.” (see “To unlock the Parental Control feature temporarily” on page 46)

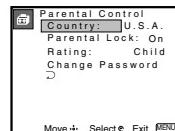
Changing the Password

- 1 Select “Parental Control” from the Set Up menu. (see page 42)

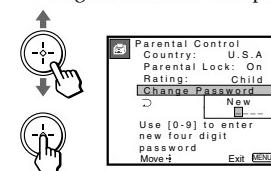


- 2 Enter your four digit password using the 0–9 buttons.

The Parental Control menu appears.



- 3 Move the joystick up or down to select “Change Password,” and press \oplus .



What the Ratings Mean

Ratings in U.S.A.

Sony's predetermined ratings

These are original ratings that Sony predetermined according to the viewer's age. Each rating allows you to view the certain programs, as follows.

See pages 52 and 53 for a description of each rating.

Child: Suitable for children under the age of 6.

Viewable U.S. movie ratings: G, NR, and N/A
Viewable U.S. TV ratings: TV-Y, TV-G, and TV-NR

Youth: Suitable for children aged 7 and older.
Viewable U.S. movie ratings: G, PG, NR, and N/A

Viewable U.S. TV ratings: TV-Y, TV-Y7, TV-G, TV-PG, and TV-NR

Young Adult: Suitable for children aged 13 and older.

Viewable U.S. movie ratings: G, PG, PG-13, NR, and N/A

Viewable U.S. TV ratings: TV-Y, TV-Y7, TV-G, TV-PG, TV-14, and TV-NR

(continued)

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Adjusting Your SET UP (menus) (continued)

U.S. movie ratings

U.S. movie ratings are for movies (including those shown on TV) rated according to the Motion Picture Association of America (MPAA) Guidelines.

G (General Audiences—All Ages)

Admitted: In G-rated films no strong words are used, the violence is at a minimum, nudity and sex scenes are not present, nor is there any drug use.

PG (Parental Guidance Suggested. Some Material May Not Be Suitable For Children): This is a film which may need to be monitored first by parents.

PG-13 (Parents Strongly Cautioned. Some Material May Be Inappropriate For Children Under 13): Parents are alerted to be very careful about the attendance of their under-teenage children when viewing.

R (Restricted, Under 17 Require Accompanying Parent Or Adult Guardian): This film includes hard language, tough violence, nudity, drug abuse or other elements of concern.

NC-17 or X (No One 17 Or Under Admitted.)

This is a film that most parents would consider not suitable for children aged 17 and under. There may be violence, sex, aberrational behavior, drug abuse or other elements of concern.

NR (Not Rated): This is a film that a producer has not rated, intending to have his film widely released.

N/A (Not Applicable): This is a film that a producer considers outside the scope of the MPAA ratings.

Note:

- NR and N/A ratings are shown together as "Unrated" in the menu.

U.S. TV ratings

U.S. TV ratings are for TV programs rated according to the U.S. Television Parental Guidelines.

TV-Y (All Children): This program is designed for young children aged 2–6 and is appropriate for all children.

TV-Y7 (Directed to Older Children)

This program is designed for children aged 7 and above. Themes and elements in this program may include mild fantasy violence or slapstick violence, or may frighten children under the age of 7.

TV-G (General Audience): Most parents would find this program suitable for all ages. It contains little or no violence, no strong language and little or no sexual dialog or situations.

TV-PG (Parental Guidance Suggested): This program contains some material that parents may find unsuitable for younger children.

TV-14 (Parents Strongly Cautioned): This program contains some material that many parents would find unsuitable for children under the age of 14.

TV-MA (Mature Audience Only): This program is specifically designed to be viewed by adults and therefore may be unsuitable for children under the age of 17.

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TV-NR (Not Rated/Unrated): This is a program broadcast without any rating, such as news, news flashes or sports.

Note:

The TV-NR rating is shown as "Unrated" in the menu.

About the extenders of U.S. TV ratings

TV-Y7, TV-PG, TV-14 and TV-MA ratings have additional content ratings called "extenders" to define additional viewing limits. The extenders are defined as follows:

D (sexually suggestive Dialog): Programs containing suggestive dialog, or sexual innuendo

FV (Fantasy Violence): Programs containing cartoon violence occurring in TV-Y7 programs only

L (coarse Language): Programs containing coarse language

S (Sexual situations): Programs containing sexual content

V (Violence): Programs containing violence. There may be some profanity, violence or brief nudity in these programs.

Ratings in Canada**Sony's predetermined ratings**

These are original ratings that Sony predetermined according to the viewer's age. Each rating allows you to view the certain programs, as follows.

See the right column to page 54 for a description of each rating.

Child: Suitable for children under the age of 7.

Viewable Canadian English Language ratings: C and G

Viewable Canadian French Language ratings: G

Viewable U.S. TV ratings: TV-Y, TV-G, and TV-NR

Youth: Suitable for children aged 8 and older.

Viewable Canadian English Language ratings: C, G, C8+ and PG

Viewable Canadian French Language ratings: G and 8 ans+

Viewable U.S. TV ratings: TV-Y, TV-Y7, TV-G, TV-PG, and TV-NR

Young Adult: Suitable for children aged 14 and older.

Viewable Canadian English Language ratings: C, G, C8+, PG and 14+

Viewable Canadian French Language ratings: G, 8 ans+, 13 ans+

Viewable U.S. TV ratings: TV-Y, TV-Y7, TV-G, TV-PG, TV-14, and TV-NR

Canadian English Language ratings

The Canadian English Language Ratings are for TV programs in English broadcast in Canada.

C (Programming intended for children under age 8): There will be no realistic scenes of violence or no offensive language, nudity or sexual content. Careful attention is paid to themes, which could threaten children's sense of security and well-being.

G (General Audience): Will contain very little violence, either physical or verbal or emotional. There may be some inoffensive slang, no profanity and no nudity.

(continued)

■ ■ ■ Adjusting Your SET UP (menus) (continued)

C8+ (Programming generally considered acceptable for children 8 years and over to watch on their own): Violence will not be portrayed as the preferred, acceptable, or only way to resolve conflict; or encourage children to imitate dangerous acts which they may see on television. There will be no profanity, nudity or sexual content.

PG (Parental Guidance): Programming intended for a general audience but which may not be suitable for younger children. Parents may consider some content inappropriate for unsupervised viewing by children aged 8 - 13.

14+ (Programming contains themes or content which may not be suitable for viewers under the age of 14): Parents are strongly cautioned to exercise discretion in permitting viewing by pre-teens and early teens.

18+ (Adult): May contain violence integral to the development of the plot, character or theme, intended for adult audiences. May contain graphic language and explicit

portrayals of nudity and/or sex.

E (Exempt): Exempt programming includes: news, sports documentaries and other information programming; talk shows, music videos, and variety programming.

Note:

The E (Exempt) rating is not shown in the menu.

Canadian French Language ratings

The Canadian French Language Ratings are for TV programs in French broadcast in Canada.

G (General): Programming intended for audience of all ages. Contains no violence, or the violence it contains is minimal or is depicted appropriately with humor or caricature or in an unrealistic manner.

8 ans+ (8+ General - Not recommended for young children): Programming intended for a broad audience but contains light or occasional violence that could disturb young children. Viewing with an adult is recommended for young children (under the

age of 8).

13 ans+ (Programming may not suitable for children under the age of 13): Viewing with an adult is strongly recommended for children under 13.

16 ans+ (Programming is not suitable for children under the age of 16): Contains frequent scenes of violence or intense violence.

18 ans+ (Programming restricted to adults): Contains constant violence or scenes of extreme violence.

E (Exempt): Exempt programming.

Note:

The E (Exempt) rating is not shown in the menu.

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■ ■ ■ Operating Video Equipment

Setting the Manufacturer's Code

You can use the supplied remote control to operate Sony or non-Sony video equipment that has an infrared sensor.

1 Set the VTR 1/2/3/DVD/MDP switch to the input through which you would like to access your video equipment.

The following Sony equipment is preset to each input as shown below:

VTR1 (303)	Beta, ED Beta VCRs
VTR2 (302)	8 mm VCR
VTR3 (301)	VHS VCR
DVD/MDP (751)	DVD Player

2 Press CODE SET, DVD/VTR (FUNCTION), and the 0-9 buttons to enter the manufacturer's code number (see the following chart), then press ENTER.

For example, to operate a Sony 8mm VCR:



If the remote control doesn't work

- See the tips on page 57.

VCR manufacturer code numbers

Manufacturer	Code
Sony	301, 302, 303
Aiwa	338
Admiral (M. Ward)	327
Audio Dynamic	314, 337
Bell & Howell (M. Ward)	330
Broksonic	319, 317
Canon	309, 308
Citizen	332
Craig	302, 332
Curtis Mathis	304, 338, 309
Daewoo	341, 312, 309
DBX	314, 336, 337
Dimensia	304
Emerson	319, 320, 316, 317, 318, 341
Fisher	330, 335
Funai	338
General Electric	329, 304, 309
Go Video	340, 339, 322
Goldstar	332
Hitachi	306, 304, 305, 338
Instant Replay	309, 308
JC Penney	309, 305, 304, 330, 314, 336, 337
JVC	314, 336, 337
Kenwood	314, 336, 332, 337
LXI (Sears)	332, 305, 330, 335, 338
Magnavox	308, 309, 310
Marantz	314, 336, 337
Marta	332
Memorex	309, 335
Minolta	305, 304
Mitsubishi/MGA	323, 324, 325, 326
Multitech	325, 338, 321
NEC	314, 336, 337
Olympic	309, 308
Optimus	327

Panasonic	308, 309, 306, 307
Pentax	305, 304
Philco	308, 309, 310
Pioneer	308, 309, 306
Quasar	304, 305, 308, 309, 311,
RCA/PROSCAN	329, 312, 313, 310
Realistic	309, 330, 328, 335, 324, 338
Sansui	314
Samsung	322, 313, 321
Sanyo	330, 335
Scott	312, 313, 321, 335, 323, 324, 325, 326
Sharp	327, 328
Signature 2000 (M. Ward)	338, 327
Sylvania	308, 309, 338, 310
Sympathonic	338
SV2000	338
Tashiro	332
Tatung	314, 336, 337
Teac	314, 336, 338, 337
Technics	309, 308
Teknika	338
Toshiba	312, 311
Wards	327, 328, 335, 331, 332
Yamaha	330, 314, 336, 337
Zenith	331

MDP manufacturer code numbers

Manufacturer	Code
Sony	701
Panasonic	704, 710
Mitsubishi	702

■■■ Operating Video Equipment (continued)

DVD Player manufacturer code numbers

Manufacturer	Code
Sony	751
Panasonic	753
Pioneer	752
RCA	755
Toshiba	754

Tips ☀

- In some rare cases, you may not be able to operate your non-Sony video equipment with the supplied remote control. In this case, please use the equipment's own remote control.
- When you remove the batteries, the code number may revert to the factory setting.

To operate video equipment

- Set the VTR1/2/3/DVD/MDP switch to the input through which you would like to access your video equipment.
- Press DVD/VTR (FUNCTION).
- Use the VCR/DVD/MDP operation buttons indicated in the following tables.

Operating a VCR using the remote control

To turn On/Off	Press DVD/VTR (POWER). [Green Button]
To select a channel	Press the 0 – 9 buttons.
To change channels	Press CH +/-.
To record	Press while pressing (REC) (upper).
To play	Press .
To stop	Press .
To fast forward	Press .
To rewind the tape	Press .
To pause	Press . Press again to resume normal playback.
To search the picture forward or backward	Press or during playback. Release to resume normal playback.
To change input mode	Press TV/VTR.

Operating an MDP using the remote control

To turn On/Off	Press DVD/VTR (POWER). [Green Button]
To play	Press .
To stop	Press .
To pause	Press . Press again to resume normal playback.

To search the picture forward or backward Press or during playback. Release to resume normal playback.

To search a chapter forward or backward Press CH +/-.

Operating a DVD Player using the remote control

To turn On/Off	Press DVD/VTR (POWER). [Green Button]
To play	Press .
To stop	Press .
To pause	Press . Press again to resume normal playback.
To step through different tracks of an audio disc	Press to step forward or to step backward.
To step through different chapters of a video disc	Press CH + to step forward or CH – to step backward.
To display the Title menu	Press TITLE.
To select DVD multilingual sound	Press AUDIO repeatedly. [Pink Labeled Button]
To display the DVD menu	Press DVD MENU.
To select tracks directly	Press 0-9 buttons.
To display the menu (Set up)	Press MENU.

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■■■ Operating a Cable Box or Satellite Receiver (SAT)

Setting the Manufacturer's Code

You can program the supplied remote control to operate a cable box or satellite receiver.

Press CODE SET, SAT/CABLE (FUNCTION), and the 0-9 buttons to enter the manufacturer's code number (see the following chart), then press ENTER.

For example, to operate a Sony satellite receiver:



Manufacturer code numbers (cable box)

Manufacturer	Code
Hamlin/Regal	222, 223, 224, 225, 226
Jerrold/G. I.	201, 202, 203, 204, 205, 222, 206, 207, 208, 218
Oak	227, 228, 229
Panasonic	219, 220, 221
Pioneer	214, 215
Scientific Atlanta	209, 210, 211
Tocom	216, 217
Zenith	212, 213

Manufacturer code numbers (satellite receiver)

Manufacturer	Code number
Sony	801 (preset code for remote control)
Geneal Electric	802, 808
Hitachi	805
Hughes	804
Panasonic	803
RCA/PROSCAN	802
Toshiba	806, 807

To operate the cable box or satellite receiver (SAT)

- Press SAT/CABLE (POWER) [Green Button] to turn on/off the cable box or satellite receiver.
 - Press SAT/CABLE (FUNCTION).
 - For other operations, refer to the operating instructions that come with the equipment.
- The GUIDE and INDEX (blue-labeled) buttons can be used only with a satellite receiver.

If the remote control doesn't work

- Try repeating the set up procedures using the other codes listed for your equipment.

To operate the projection TV

Press TV (FUNCTION). Then use the projection TV control buttons to control the projection TV.

Tips ☀

- If more than one code number is listed, try entering them one by one until you come to the correct code for your equipment.
- If you enter a new code number, the code number you previously entered at that setting is erased.
- In some rare cases, you may not be able to operate your equipment with the supplied remote control. In this case, use the equipment's own remote control unit.
- Whenever you remove the batteries — to replace them, for example — if too much time is taken, the code numbers may revert to the factory setting and must be reset.

Troubleshooting

If, after reading the following instructions, you have additional questions related to the use of your Sony projection TV, please call one of the following numbers (English only).
 Customers in the continental United States contact the Direct Response Center at: 1-800-222-SONY (7669)
 Customers in Canada contact the Customer Relations Center at: (416) 499-SONY (7669)

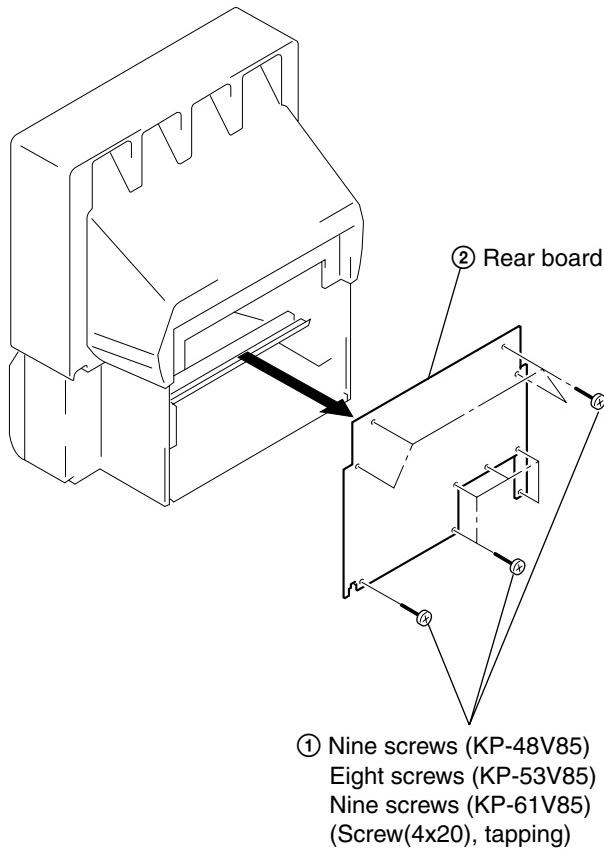
The picture turns off and the TIMER/STAND BY indicator on the front panel flashes (self-diagnosis function)	<ul style="list-style-type: none"> The projection TV is equipped with a self-diagnosis function. If there is a problem with your projection TV, the TIMER/STAND BY indicator on the front panel will flash repeatedly. Counting the number of flashes helps you inform qualified Sony personnel of the projection TV's condition. Press POWER on the projection TV to turn it off, then inform qualified Sony personnel or the above Direct Response Center of the number of flashes.
No picture (screen not lit), no sound	<ul style="list-style-type: none"> Make sure the power cord is plugged in. Operate with the buttons on both the projection TV and the remote control. Check to see if the TV/VIDEO setting is correct: when watching TV, set to TV, and when watching video tapes, set to VIDEO 1, 2, 3, 4 or 5. Try another channel. <i>It could be station trouble.</i> Perform AUTO SET UP again using the SET UP button to return to the factory preset condition. (see "To perform AUTO SET UP again" on page 24) The Parental Control feature is activated. (see "To deactivate the Parental Control feature" on page 45)
Remote control does not operate	<ul style="list-style-type: none"> Batteries could be weak. Replace the batteries. Press TV (FUNCTION) when operating your projection TV. Make sure the projection TV's power cord is connected securely to the wall outlet. Locate the projection TV at least 3-4 feet away from fluorescent lights. Check the S-Link connection. (see "Using the S-Link Function" on page 20) Check the polarity of the batteries.
Dark, poor or no picture (screen lit), good sound	<ul style="list-style-type: none"> Adjust "Picture" in the Video menu. (see "Picture Adjustment" on page 34) Adjust "Brightness" in the Video menu. (see "Picture Adjustment" on page 34) Check antenna/cable connections. Perform AUTO SET UP again using the SET UP button to return to the factory preset condition. (see "To perform AUTO SET UP again" on page 24) Adjust the convergence again using the FLASH FOCUS button. (see "Adjusting the Convergence Automatically (FLASH FOCUS)" on page 24)
Good picture, no sound	<ul style="list-style-type: none"> Press MUTING so that "Muting" disappears from the screen. (see "MUTING" on page 25) Check the "MTS/SAP" setting in the Audio menu. (see "MTS/SAP" on page 35) Make sure "Speaker" is set to "On" in the Audio menu. (see "Speaker" on page 36) Perform AUTO SET UP again using the SET UP button to return to the factory preset condition. (see "To perform AUTO SET UP again" on page 24)

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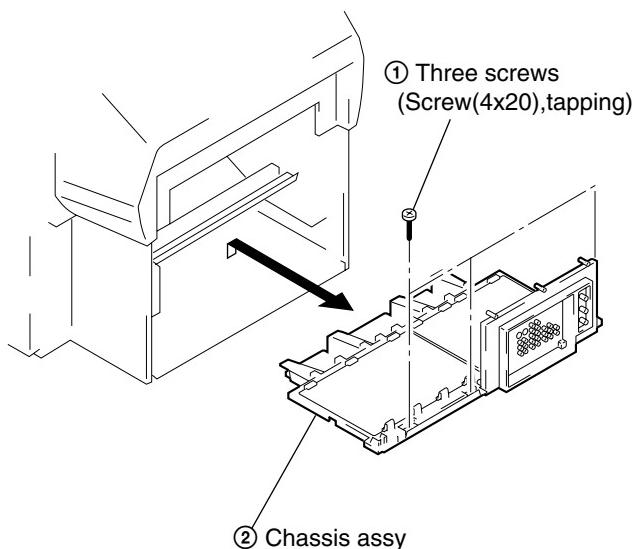
Cannot receive upper channels (UHF) when using an antenna	<ul style="list-style-type: none"> Make sure "Cable" is "Off" in the Channel Set Up menu. (see "Cable" on page 39) Use "Auto Program" to add receivable channels that are not presently in the TV's memory. (see "Auto Program" on page 39)
No color	<ul style="list-style-type: none"> Adjust "Color" in the Video menu. (see "Picture Adjustment" on page 34) Black and white programs cannot be seen in color. Perform AUTO SET UP again using the SET UP button to return to the factory preset condition. (see "To perform AUTO SET UP again" on page 24)
Only snow and noise appear on the screen	<ul style="list-style-type: none"> Check the "Cable" setting in the Channel Set Up menu. (see "Cable" on page 39) Check the antenna/cable connections. Make sure the channel is broadcasting programs. Press ANT to change the input mode. (see "ANT" on page 27)
Dotted lines or stripes	<ul style="list-style-type: none"> Adjust the antenna. Keep the projection TV away from noise sources such as cars, neon signs or hair-dryers.
TV is fixed to one channel	<ul style="list-style-type: none"> Use "Auto Program" to add receivable channels that are not presently in TV's memory. (see "Auto Program" on page 39)
Double images or ghosts	<ul style="list-style-type: none"> Use a highly directional outdoor antenna or a cable (when the problem is caused by reflections from nearby mountains or tall buildings).
Cannot operate the menu	<ul style="list-style-type: none"> If the item you want to choose appears in gray, you cannot select it. Press the projection TV's power button off and on again.
Cannot receive any channels when using cable TV	<ul style="list-style-type: none"> Make sure "Cable" is "On" in the Channel Set Up menu. (see "Cable" on page 39) Use "Auto Program" to add receivable channels that are not presently in the TV's memory. (see "Auto Program" on page 39)
Cannot gain enough volume when using a cable box	<ul style="list-style-type: none"> Increase the volume at the cable box. Then press TV (FUNCTION) and adjust the projection TV's volume.
Projection TV malfunctions when using the S-Link function	<ul style="list-style-type: none"> Make sure the projection TV's power cord is connected securely to the wall outlet. Check the S-Link connection. (see "Using the S-Link Function" on page 20)
CHANNEL INDEX does not display all available channels	<ul style="list-style-type: none"> Make sure "Cable" is "On" in the Channel Set Up menu. (see "Cable" on page 39) Use "Auto Program" to add receivable channels that are not presently in the TV's memory. (see "Auto Program" on page 39)
Favorite Channel does not display your choices	<ul style="list-style-type: none"> Verify that "Favorite Channel" is set to "Manual" in the Channel Set Up menu. (see "Setting Favorite Channel manually" on page 40)
Some video sources do not appear when you press TV/VIDEO	<ul style="list-style-type: none"> Ensure that "Video Label" is not set to "Skip." (see "Video Label" on page 43)
Recording through MONITOR OUT does not function properly when recording in PIP or P&P mode	<ul style="list-style-type: none"> MONITOR OUT will not record both images in PIP or P&P. Only the main picture will be recorded. If you are recording the main picture and you switch to the sound of the sub picture using the AUDIO button, the main picture will be recorded with sound from the other program.
Cannot play shooting games	<ul style="list-style-type: none"> Some shooting games which involve pointing a light beam at the TV screen with an electronic gun or rifle cannot be used with this projection TV. For details, see the instruction manual supplied with the video game software.

SECTION 2 DISASSEMBLY

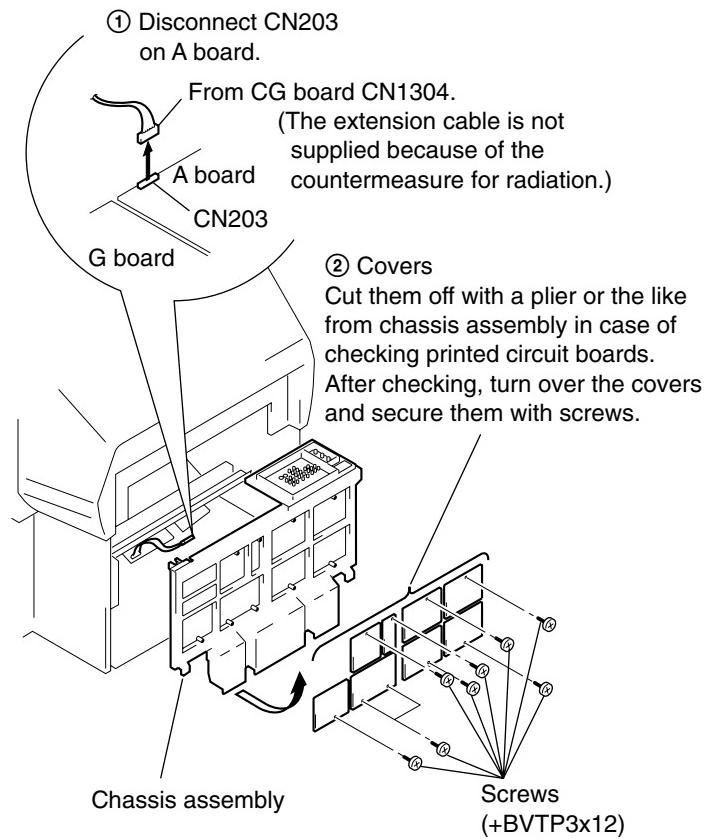
2-1. REAR BOARD REMOVAL



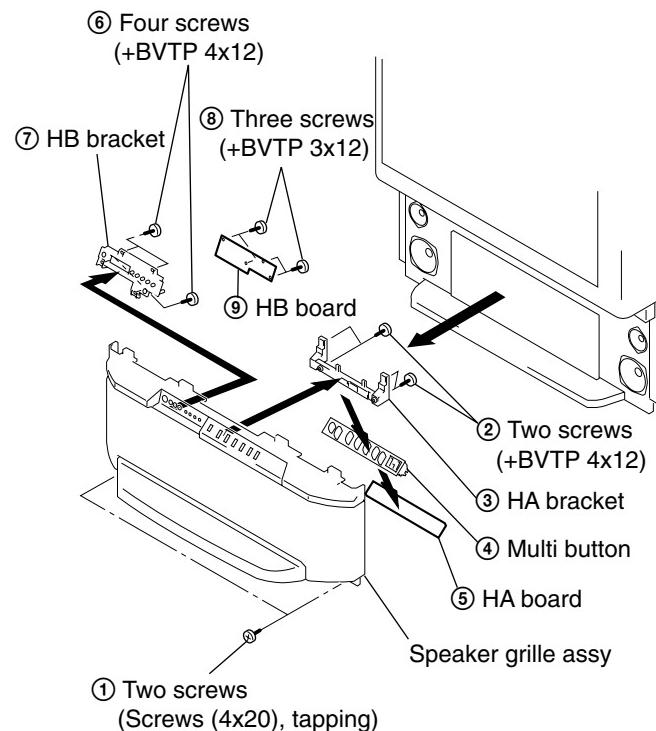
2-2. CHASSIS ASSY REMOVAL



2-3. SERVICE POSITION

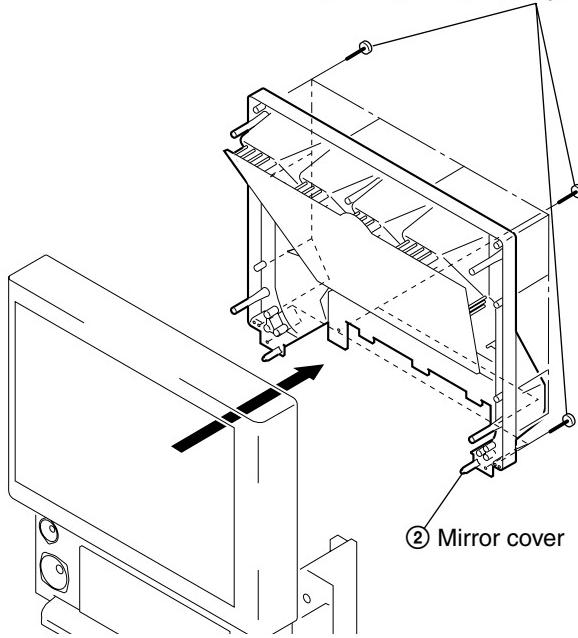


2-4. HA BOARD AND HB BOARD REMOVAL

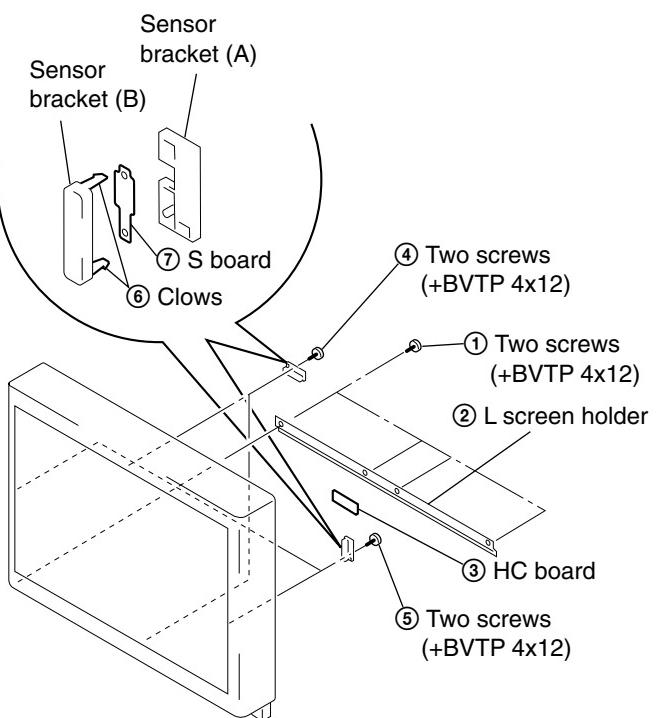


2-5. MIRROR COVER REMOVAL

- ① Nineteen screws(KP-53V85)
Twenty three screws
(KP-61V85)
- Twenty four screws (KP-48V85)
(Screw(4x20), tapping)

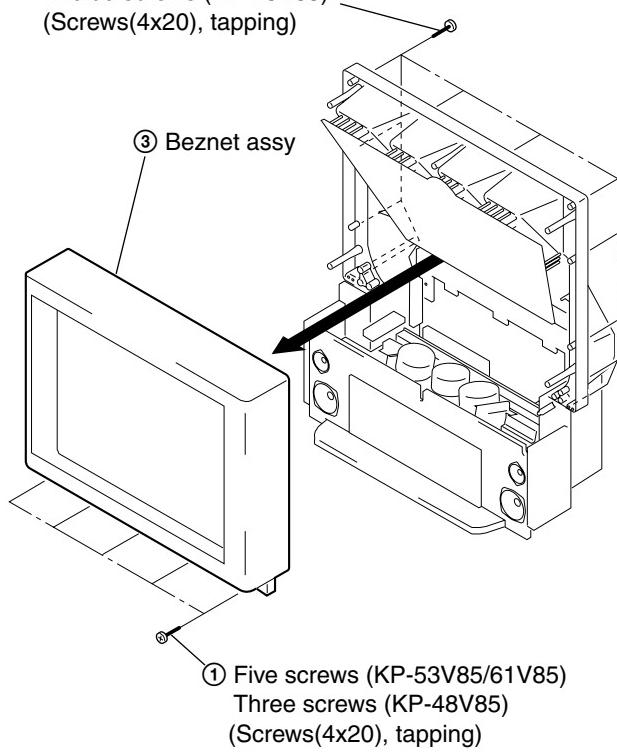


2-7. HC BOARD AND S BOARD REMOVAL

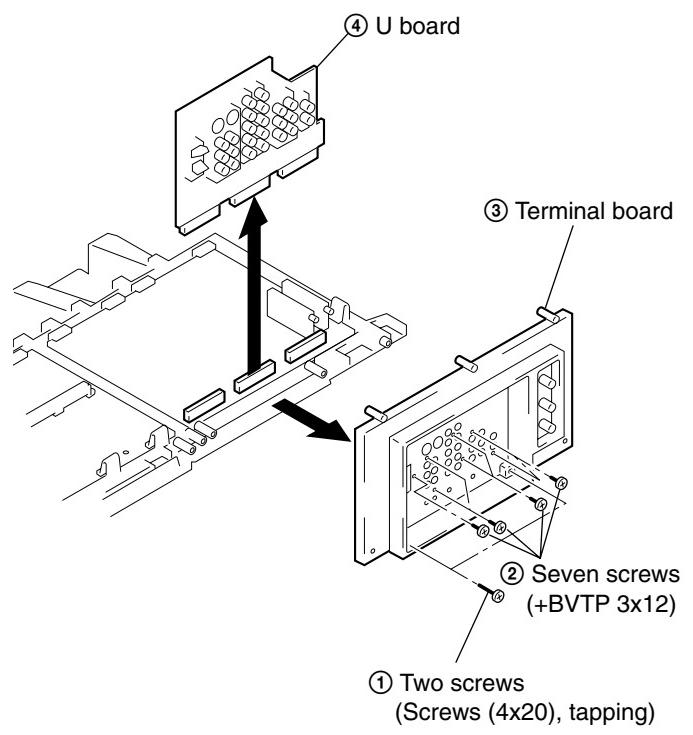


2-6. BEZNET ASSY REMOVAL

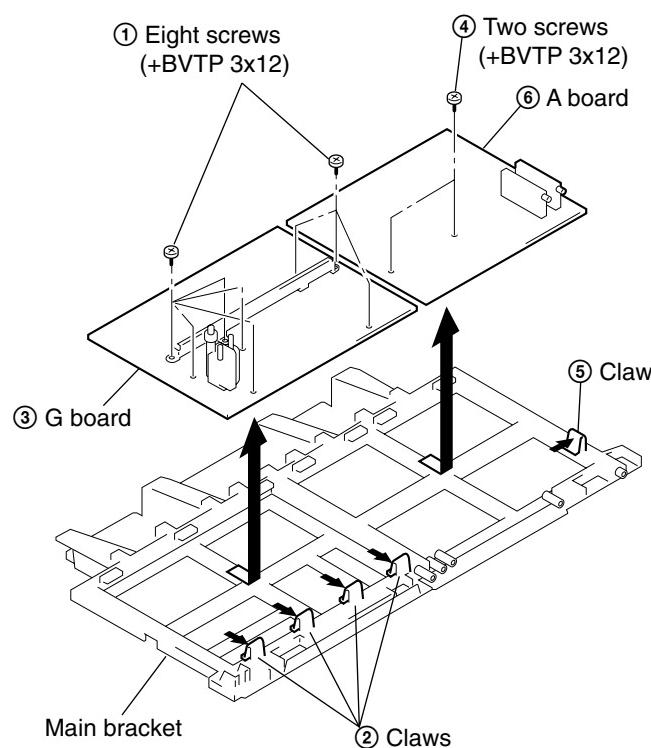
- ② Fourteen screws (KP-61V85)
Fifteen screws (KP-53V85)
- Twelbe screws (KP-48V85)
(Screws(4x20), tapping)



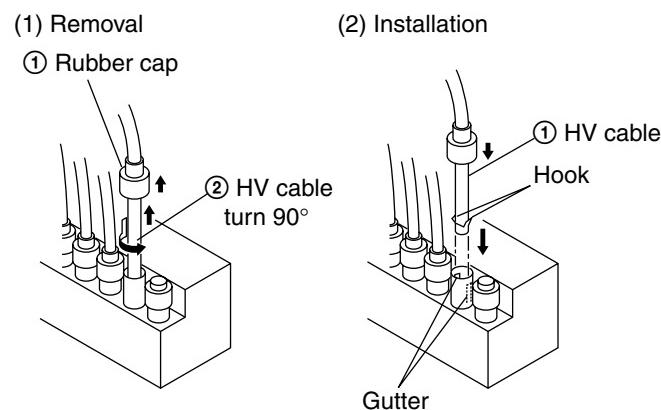
2-8. U BOARD AND TERMINAL BOARD REMOVAL



2-9. A BOARD AND G BOARD REMOVAL

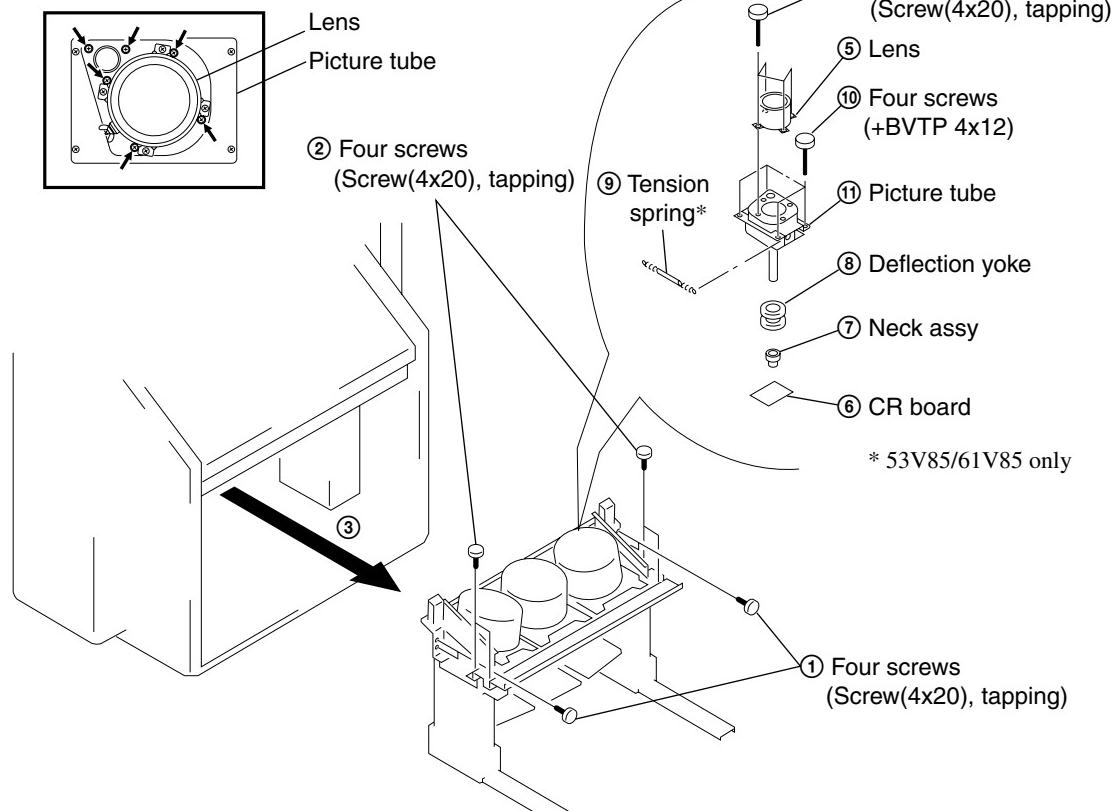


2-11. HIGH-VOLTAGE CABLE INSTALLATION AND REMOVAL



2-10. PICTURE TUBE REMOVAL

CAUTION: Removing the arrow-marked screws is strictly prohibited.
If removed, it may cause liquid spill.



SET-UP ADJUSTMENTS

3-1. SCREEN VOLTAGE ADJUSTMENT (COARSE ADJUSTMENT)

1. Receive the Monoscope signal.
2. Set 50% BRIGHTNESS and minimum PICTURE.
3. Turn the red VR on the FOCUS block all the way to the left and then gradually turn it to the right until the point where you can see the retrace line.
4. Next gradually turn it to the left to the position where the retrace line disappears.

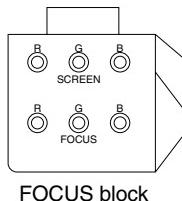


Fig. 3-1

3-2. SCREEN (G2) ADJUSTMENT (FINE ADJUSTMENT)

Fine Mode is recommended to set screen controls to their optimal condition. It is necessary to build the simple jig, illustrated below, using 3-watt resistors. Please note, that if the proper voltage is not obtained with their listed values, resistors, then please increase or decrease one of the values in the resistor network to obtain the correct voltage.

1. Select VIDEO1 mode without signals.
2. Connect G2 JIG.
3. SW on JIG.
4. Connect an oscilloscope to the TP701(KR), TP732(KG) and TP761(KB) of CR board, CG board and CB board.
5. Adjust R, G and B screen voltage to 170-173V with screen VR on the Focus block.

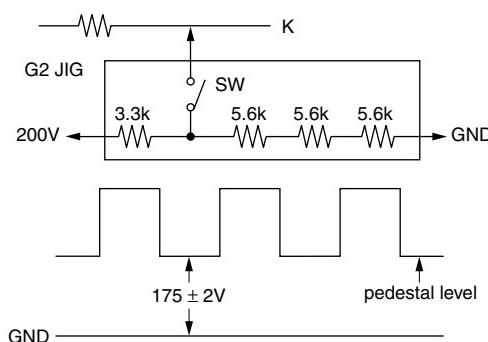


Fig. 3-2

3-3. DEFLECTION YOKE TILT ADJUSTMENT

1. Receive the Monoscope signal.
2. Set in service mode.
3. Cover the both red and blue picture lenses with the lens caps to show only the green color.
4. Loosen the deflection yoke set screw and align the tilt of the Deflection Yoke so that the bars at the center of the monoscope pattern are horizontal.
5. After aligning the deflection yoke, fasten it securely to the funnel-shaped portion (neck) of the CRT.
6. The tilt of the deflection yoke for red is aligned in the mode Cover the both green and blue picture lenses with the lens caps and the tilt of the deflection yoke for blue is aligned with in

the mode Cover the both green and red picture lenses with the lens caps is aligned the same as was done for green.

Note: Instead of items 3 and 6, you can cut off the unnecessary color beams by controlling the service mode VPNT 28 RON, 29 GON, and 30 BON.

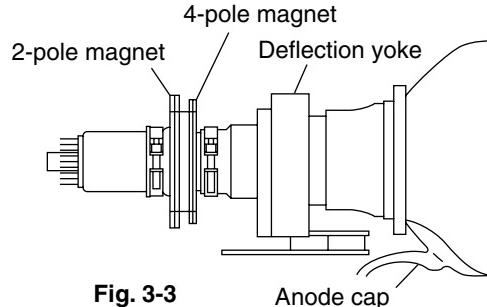


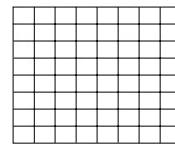
Fig. 3-3

3-4. FOCUS LENS ADJUSTMENT

In this adjustment, use the remote commander in the service mode.

For details of the usage of the service mode and the remote commander, please refer the item 3-9. ELECTRICAL ADJUSTMENT BY REMOTE COMMANDER.

1. Loosen the lens screw.
2. Set to the service mode.
3. Receive the all-white signal.
4. Cover the both red and blue picture lenses with the lens caps to show only the green color.
5. Set to PJE, and press 6 to display the test signal (crosshatch)“ on the screen.
6. Turn the green lens to adjust to the optimum focus point with the test signal.
7. Tighten the lens screw.
8. Cover the both green and blue picture lenses with the lens caps to show only the red color.
9. Set to PJE, and press 6 to display the test signal (crosshatch)“ on the screen.
10. Adjust red CRT lens just the same as green.
11. Cover the both green and red picture lenses with the lens caps to show only the blue color.



Test signal

Fig. 3-4

12. Set to PJE, and press 6 to display the test signal (crosshatch)“ on the screen.
13. Adjust blue CRT lens just the same as green.
14. After adjusting the items 3-5. Focus VR Adjustment, 3-6. 2-Pole Magnet Adjustment and 3-7. 4-Pole Magnet Adjustment, adjust again to the optimum focus point.

*: Every time you press 6, the test signal changes to “crosshatch+video signal” - “dots+video signal” - “crosshach(black)” - “dots(black)” - off.

Note: Instead of items 4, 8 and 11, you can cut off the unnecessary color beams by controlling the service mode VPNT 28 RON, 29 GON, and 30 BON.

3-5. FOCUS VR ADJUSTMENT

1. Set to the service mode.
2. Receive the all-white signal.
3. Cover the both red and blue picture lenses with the lens caps to show only the green color.
4. Set to PJE, and press 6 to display the test signal (crosshatch) on the screen.
5. Turn the green focus VR on the focus block to adjust to the optimum focus point with the test signal.
6. Cover the both green and blue picture lenses with the lens caps to show only the red color.
7. Set to PJE, and press 6 to display the test signal (crosshatch) on the screen.
8. Turn the red focus VR on the focus block to adjust to the optimum focus point with the test signal.
9. Cover the both green and red picture lenses with the lens caps to show only the blue color.
10. Set to PJE, and press 6 to display the test signal (crosshatch) on the screen.
11. Turn the blue focus VR on the focus block to adjust to the optimum focus point with the test signal.
12. After adjusting the items 3-4. Focus Lens Adjustment, 3-6. 2-Pole Magnet Adjustment and 3-7. 4-Pole Magnet Adjustment, adjust again to the optimum focus point.

Note: Instead of items 3, 6 and 9, you can cut off the unnecessary color beams by controlling the service mode VPNT 28 RON, 29 GON, and 30 BON.

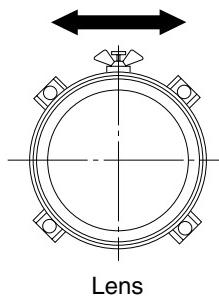


Fig. 3-5

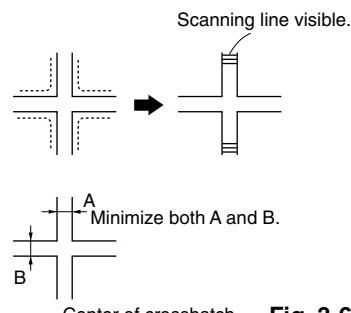


Fig. 3-6

3-6. 2-POLE MAGNET ADJUSTMENT (GREEN,RED)

1. Receive the Dot signal.
2. Set in service mode.
3. Cover the both red and blue picture lenses with the lens caps to show only the green color.
4. Turn the green focus VR on the focus block to the right and set to overfocus to enlarge the spot.
5. Now align the 2-Pole Magnet so that the enlarged spot is in the center of the Just Focus spot.
6. Align the green focus VR and set for just (precise) focus.
7. Perform the same alignment for red.

Use the center dot

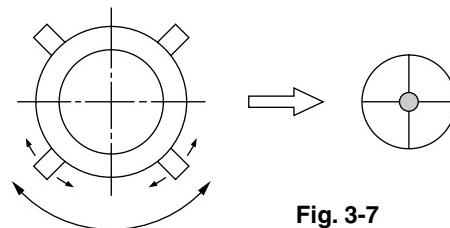


Fig. 3-7

3-7. 4-POLE MAGNET ADJUSTMENT

1. Receive the Dot signal.
2. Set in service mode.
3. Cover the both red and blue picture lenses with the lens caps to show only the green color.
4. Turn the green focus VR on the focus block to the left and set to underfocus to enlarge the spot.
5. Now align the 4-Pole Magnet so that the enlarged spot becomes a perfect circle for green and red.
6. Perform the same alignment for blue.

Use the center dot

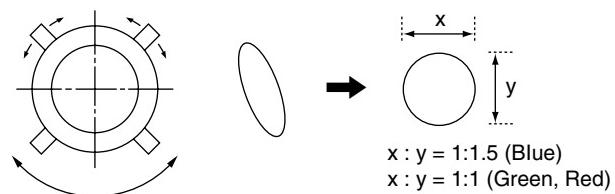


Fig. 3-8

3-8. DEFOCUS ADJUSTMENT (BLUE)

Note: Please adjust the blue dot to be slightly larger than red and green dots. This adjustment provides a more pleasing picture to the customer.

1. Select the video menu and set the mode to "VIVID" mode.
2. Set to the service mode.
3. Change TV mode to the video input mode.
4. Set to PJE, and press 6 to display the test signal (dots) on the screen.
5. Turn the blue focus VR on the focus block to adjust to the diameter of the dots as shown in the figure below.

[Focus adjustment point]



Inch	48"	53"	61"
L	7	8	9

Fig. 3-9

3-9. ELECTRICAL ADJUSTMENT BY REMOTE COMMANDER

By using Remote Commander (RM-Y905), all circuit adjustments can be made.

NOTE : Test Equipment Required.

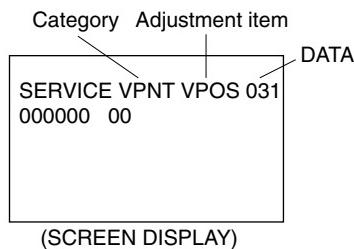
1. Pattern Generator (with component outputs)
2. Frequency counter
3. Digital multimeter
4. Audio oscillator

1. METHOD OF SETTING THE SERVICE ADJUSTMENT MODE

SERVICE MODE PROCEDURE

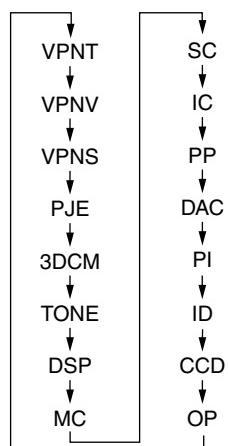
1. Standby mode. (Power off)
2. **DISPLAY** → **5** → **VOL (+)** → **TV POWER**
on the Remote Commander.
(Press each button within a second.)

SERVICE MODE ADJUSTMENT



3. The SCREEN displays the item being adjusted.
4. Press **1** or **4** on the Remote Commander to select the adjustment item.
5. Press **3** or **6** on the Remote Commander to change the data.
6. Press **2** or **5** on the Remote Commander to select the category.

Every time you press 2(Category up), Service mode changes in the order as shown below.



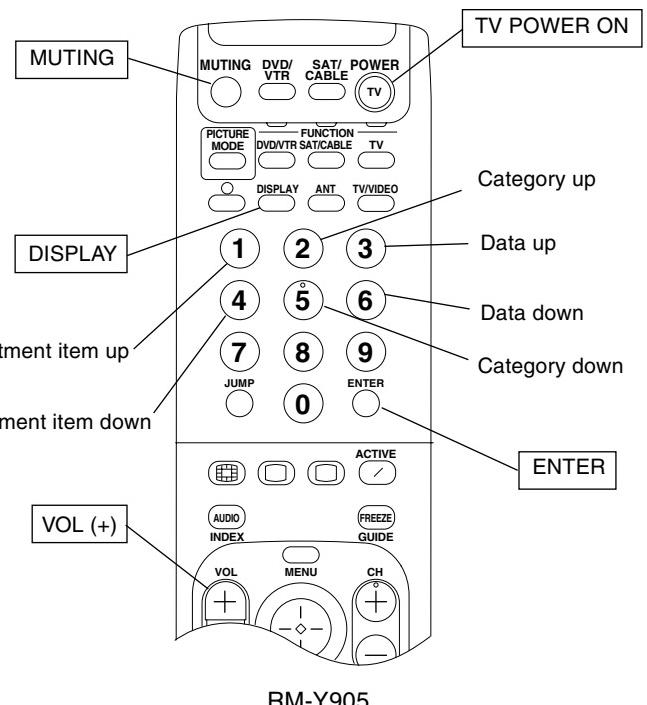
7. If you want to recover the latest values press **0** then **ENTER** to read the memory.
8. Press **MUTING** then **ENTER** to write into memory.
9. Turn power off.

Note: Press **8** then **ENTER** on the Remote Commander to initialize or turn set off and on to exit.

2. MEMORY WRITE CONFIRMATION METHOD

1. After adjustment, remove the plug from AC outlet, and then replace the plug in AC outlet again.
2. Turn the power switch ON and set to Service Mode.
3. Call the adjusted items again and confirm they were adjusted.

3. ADJUSTING BUTTONS AND INDICATOR



RM-Y905

Note : When the PJE mode is activated, which displays an internally generated signal, several buttons on the remote commander will have different functions than listed above. Therefore, when in the PJE mode, refer to page 46 for button functions.

4. SERVICE MODE LIST

Note: • shaded items are fixed. There is no need to change data. Others are different a little
 in the sets individually. Basically, there is no need to change data, too.
 • Usually, there is no need to adjust except for VPNT and PJE. Use data as a reference in case
 of replacing printed circuit boards or devices.

VPNT (Video Processor NTSC)

ITEM NUMBER	ADJUSTMENT ITEM	DATA RANGE	STANDARD DATA	NOTE
0	VPOS	0-63	31	V POSITION
1	VSIZE	0-63	31	V SIZE
2	VCOM	0-3	0	V COMP
3	VLIN	0-15	7	V LINEARITY
4	VSCO	0-15	7	V S-CURVE CORRECTION
5	HPOS	0-15	7	H POSITION
6	HSIZ	0-63	31	H SIZE
7	PAMP	0-63	31	PIN AMP
8	UPIN	0-15	7	UPPER CORNER PIN DISTORTION
9	LPIN	0-15	7	LOWER CORNER PIN DISTORTION
10	PPHA	0-15	5	PIN PHASE
11	AFC	0-3	2	AFC LOOP GAIN
12	VBOW	0-15	7	V BOW
13	VANG	0-15	7	V ANGLE
14	REF	0-3	3	REFERENCE PULSE POSITION
15	RDRV	0-63	31	RED DRIVE GAIN
16	BDRV	0-63	31	BLUE DRIVE GAIN
17	RCUT	0-15	7	RED CUTOFF
18	BCUT	0-15	7	BLUE CUTOFF
19	SCON	0-15	7	SUB CONTRAST
20	SHUE	0-15	7	SUB HUE
21	SCOL	0-15	7	SUB COLOR
22	CDM2	0,1	0	COUNT DOWN MODE2
23	DPIX	0,1	1	DYNAMIC PICTURE
24	NOTC	0,1	0	Y CHROMA TRAP
25	CROM	0-15	7	CHROMA TRAP F0
26	TOT	0,1	0	CHROMA TOT FILTER
27	SHPF	0-3	3	SHARPNESS F0
28	RON	0,1	1	RED ON
29	GON	0,1	1	GREEN ON
30	BON	0,1	1	BLUE ON
31	DCOL	0,1	1	DYNAMIC COLOR
32	CDMD	0,1	0	V COUNT DOWN
33	LBLK	0-15	13	LEFT-SIDE BLANK WIDTH
34	RBLK	0-15	13	RIGHT-SIDE BLANK WIDTH
35	PREC	0-3	1	PRE OVER LEVEL FOR COMP.V IN
36	PREY	0-3	1	PRE OVER LEVEL FOR Y IN

VPNV (Video Processor NTSC Vivid)

ITEM NUMBER	ADJUSTMENT ITEM	DATA RANGE	STANDARD DATA	NOTE
0	SBRV	0-63	27	SUB BRIGHTNESS FOR VIVID
1	GMMV	0-3	2	GAMMA LEVEL FOR VIVID
2	YDCV	0,1	1	Y-DC TRANSFER RATIO FOR VIVID
3	ABLV	0,1	1	ABL MODE FOR VIVID
4	AXIV	0,1	0	AXIS R-Y-G-Y FOR VIVID

ITEM NUMBER	ADJUSTMENT ITEM	DATA RANGE	STANDARD DATA	NOTE
0	SRVS	0-63	27	SUB BRIGHTNESS FOR VIVID
1	GMMS	0-3	2	GAMMA LEVEL FOR VIVID
2	YDCS	0,1	0	Y-DC TRANSFER RATIO FOR VIVID
3	ABLS	0,1	1	ABL MODE FOR VIVID
4	AXIS	0,1	0	AXIS R-Y-G-Y FOR VIVID

PJE (Projection TV Engine)

3DCM (3D Comb Filter)

ITEM NUMBER	ADJUSTMENT ITEM	DATA RANGE	STANDARD DATA	NOTE
0	FDS	0.1	0	SELECT REGI DATA DISPLAY OF FINE ADJ
1	OSDH	1-255	31	PIED SERVICE MENU H POSITION
2	OSDV	1-255	25	PIED SERVICE MENU V POSITION
3	FVST	0-255	25	LINE NUMBER OF FINE ADJUST START
4	VIST	0-255	0	VI START DATA
5	VICU	0-255	62	VI COUNT UP DATA
6	COHP	0-255	0	H-PHASE OF ROUGH ADJ
7	FHP	0-255	194	H-PHASE OF FINE ADJ
8	TPHP	0-255	62	H-PHASE OF TEST PATTERN
9	DFHP	0-255	225	H-PHASE OF DYNAMIC FOCUS
10	DFHG	-128-127	-80	H-2 GAIN OF DYNAMIC FOCUS
11	DF/G	-128-127	-15	V-2 GAIN OF DYNAMIC FOCUS
12	PWM1	0-255	0	PWM1
13	PWM2	0-255	32	H-PHASE OF AUTO REGI. TEST PATTERN
14	HBLD	0-255	244	H-PHASE OF RETURNED BLUE V LINE
15	HBLW	0-63	23	PULSE WIDTH OF RETURNED BLUE V LINE
16	BLKP	0-255	27	START BLANK PULSE
17	COGV	-128-127	X(*1)	GREEN V CENT OFFSET DATA OF AUTO REGI
18	CORV	-128-127	X(*1)	RED V CENT OFFSET DATA OF AUTO REGI
19	COBV	-128-127	X(*1)	BLUE V CENT OFFSET DATA OF AUTO REGI
20	COGH	-128-127	X(*1)	GREEN H CENT OFFSET DATA OF AUTO REGI
21	CORH	-128-127	X(*1)	RED H CENT OFFSET DATA OF AUTO REGI
22	COBH	-128-127	X(*1)	BLUE H CENT OFFSET DATA OF AUTO REGI
23	SOGV	-128-127	X(*1)	GREEN V SKEW OFFSET DATA OF AUTO REGI
24	SORV	-128-127	X(*1)	RED V SKEW OFFSET DATA OF AUTO REGI
25	SOBV	-128-127	X(*1)	BLUE V SKEW OFFSET DATA OF AUTO REGI
26	SOGH	-128-127	X(*1)	GREEN H SKEW OFFSET DATA OF AUTO REGI
27	SORH	-128-127	X(*1)	RED H SKEW OFFSET DATA OF AUTO REGI
28	SOBH	-128-127	X(*1)	BLUE H SKEW OFFSET DATA OF AUTO REGI
29	ERR	0	0	AUTO REGI ERROR CODE
30	ADTM	0-255	144	TIMING TO GET A/D DATA OF AUTO REGI
31	VUP	1-255	1	AUTO REGI PATTERN UPPER V POSITION
32	VMD	1-255	102	AUTO REGI PATTERN MIDDLE V POSITION
33	VLOW	1-255	212	AUTO REGI PATTERN LOWER V POSITION
34	HPR	1-510	1	AUTO REGI PATTERN H POSITION
	CENT	-512-511	000 / 000	GREEN H/V CENT
	SKEW	-512-511	000 / 000	GREEN H/V SKEW
GRN	SIZE	-512-511	-70/-190	GREEN H/V SIZE
	LIN	-512-511	xxxx / xxxx	GREEN H/V LIN
	KEY	-512-511	xxxx / xxxx	GREEN H/V KEY
	PIN	-512-511	xxxx / 271	GREEN H/V PIN
	CENT	-512-511	000 / 000	BLUE H/V CENT
	SKEW	-512-511	080 / -130	BLUE H/V SKEW
BLU	SIZE	-512-511	-20 / -226	BLUE H/V SIZE
	LIN	-512-511	187 / xxxx	BLUE H/V LIN
	KEY	-512-511	xxxx / -115	BLUE H/V KEY
	PIN	-512-511	xxxx / 198	BLUE H/V PIN
	CENT	-512-511	000 / 000	RED H/V CENT
	SKEW	-512-511	080 / -130	RED H/V SKEW
RED	SIZE	-512-511	-61 / -206	RED H/V SIZE
	LIN	-512-511	195 / xxxx	RED H/V LIN
	KEY	-512-511	xxxx / 124	RED H/V KEY
	PIN	-512-511	xxxx / 250	RED H/V PIN

ITEM NUMBER	ADJUSTMENT ITEM	DATA RANGE	STANDARD DATA	NOTE
0	NRMD	0-3	0	NOISE REDUCER MODE
1	DYCO	0-15	2	ΔY CORING LEVEL SETTING
2	DYGA	0-15	10	ΔY GAIN SETTING
3	DCCO	0-15	5	ΔC CORING LEVEL SETTING
4	DCGA	0-15	5	ΔC GAIN SETTING
5	SELD	0.1	1	SELECT ΔY SIGNAL FILTER
6	DAGA	0-7	4	ΔYC 2nd GAIN SETTING
7	VRPH	0-3	1	VTR HSYNC HYSTERESIS SETTING
8	VTTR	0-3	1	VTR HSYNC REFERENCE SETTING
9	LDSR	0-3	2	LD SIGNAL REFERENCE
10	VAPG	0-7	5	V APERTURE GAIN
11	VAPI	0-31	11	V APERTURE INVERT POINT
12	YPFT	0-3	0	Y PEAKING FILTER TAP
13	YPPG	0-15	9	Y PEAKING FILTER GAIN
14	VAPS	0-3	2	VERTICAL 1-LINE SELECTOR
15	VEGS	0-3	1	VERTICAL EDGE SELECTOR
16	CCSN	0.1	0	C SIGNAL 3-LINE COM FILTER
17	HDP	0-7	4	HD HORIZONTAL PHASE
18	CDL	0-7	4	C DELAY
19	HSSL	0-15	12	H SYNC SLICE LEVEL
20	VSSL	0-15	8	V SYNC SLICE LEVEL
21	BPLF	0.1	1	H PLL FILTER
22	BPLF	0.1	0	BURST PLL FILTER
23	FSCF	0.1	1	FSC FILTER GAIN
24	PLFG	0.1	1	PLL FILTER GAIN
25	EXAD	0.1	1	EXTERNAL AD IN
26	MISS	0.1	0	FORCED MOTION SIGNAL
27	COUT	0-3	2	C SIGNAL OUTPUT
28	YAPS	0-3	1	Y APERTURE
29	NSDS	0-3	0	NON STD SIGNAL DETECT.
30	CPP	0-3	0	CLAMP PULSE & AD RANGE
31	YHCO	0-3	1	Y HIGH FREQ. SIGNAL CORING
32	YPCO	0.1	0	Y PEAK FILTER CORING OFF
33	KILR	0-15	3	KILLER REFERENCE
34	BGPS	0-15	4	BGP START POSITION
35	BOPW	0-15	10	BGP WIDTH
36	ADCL	0-3	2	AD CLOCK DELAY
37	PWRF	0.1	0	PULSE WIDTH REFERENCE
38	YHCG	0.1	0	Y HIGH FREQ. SIGNAL CORING I/2 GAIN
39	CKG2	0.1	1	CLOCK GENERATOR TEST BIT
40	CKGE	0.1	0	CLOCK GENERATOR TEST BIT

* 1 : Set correctly by the automatic registration adjustment.

xxxx : Cannot change.

SC (Sub Chroma Decoder)

ITEM NUMBER	ADJUSTMENT ITEM	DATA RANGE	STANDARD DATA	NOTE
0	RBAS	0-63	39	RESET VALUE OF USER BASS DATA
1	RTRE	0-63	35	RESET VALUE OF USER TREBLE DATA
2	BBEH	0-15	-	BBE HIGH FREQUENCY
3	BBEL	0-11	-	BBE LOW FREQUENCY
4	SUFE	7	-	SURROUND EFFECT

IC (Inset Chroma Decoder)

ITEM NUMBER	ADJUSTMENT ITEM	DATA RANGE	STANDARD DATA	NOTE
0	TB0H	0-255	48	TRUSURROUND EFFECT (L+R) COARSE
1	TB0L	0-255	0	TRUSURROUND EFFECT (L+R) FINE
2	TB1H	0-255	64	TRUSURROUND EFFECT (L-R) COARSE
3	TB1L	0-255	0	TRUSURROUND EFFECT (L-R) FINE
4	TB2H	0-255	64	TRUSURROUND EFFECT (C) COARSE
5	TB2L	0-255	0	TRUSURROUND EFFECT (C) FINE
6	TBFH	0-255	165	TRUSURROUND EFFECT (S) COARSE
7	TBFL	0-255	126	TRUSURROUND EFFECT (S) FINE
8	TC0H	0-255	90	TRUSURROUND EFFECT (S) COARSE
9	TC0L	0-255	130	TRUSURROUND EFFECT (S) FINE
10	TC1H	0-255	11	TRUSURROUND EFFECT (L,R) COARSE
11	TC1L	0-255	100	TRUSURROUND EFFECT (L,R) FINE
12	SADH	0-255	64	SRS SPACE LEVEL COARSE
13	SADL	0-255	0	SRS SPACE LEVEL FINE
14	SB0H	0-255	92	SRS CENTER LEVEL COARSE
15	SB0L	0-255	0	SRS CENTER LEVEL FINE

PP (Picture In Picture Vseries Only)

ITEM NUMBER	ADJUSTMENT ITEM	DATA RANGE	STANDARD DATA	NOTE
0	PDDR	0-15	0	PIP COLOR
1	PHDR	0-15	0	PIP H POSITION
2	PAFC	0-3	0	PIP V POSITION
3	PTAD	0-15	0	PIP TRAP FO ADJUSTMENT
4	PTOT	0-1	0	PIP CHROMA TOT FILTER
5	PSCN	0-15	0	PIP SUB CONTRAST
6	PYDC	0-7	0	PIP Y DC TRAN
7	PSHP	0-1	0	PIP SHARPNESS F0
8	PMSK	0-1	0	PIP MACRO VISION MASK

TONE (Tone Control)

ITEM NUMBER	ADJUSTMENT ITEM	DATA RANGE	STANDARD DATA	NOTE
0	MYDR	0-31	22	MAIN Y DRIVE
1	MSHU	0-63	31	MAIN SUB HUE
2	MSCL	0-63	31	MAIN SUB COLOR
3	MUPD	0-15	7	MAIN U PEDESTAL OFFSET
4	MVPD	0-15	7	MAIN V PEDESTAL OFFSET
5	MDLY	0-3	0	MAIN Y DELAY
6	MU2P	0-15	7	MAIN U2 PEDESTAL OFFSET
7	MY2P	0-15	7	MAIN V2 PEDESTAL OFFSET
8	MY2D	0-31	19	MAIN Y2 DRIVE
9	MUD2	0-31	11	MAIN U2 DRIVE
10	MY2D	0-31	11	MAIN V2 DRIVE
11	MFRE	0-3	3	MAIN PRE-OVER

MC (Main Chroma Decoder)

ITEM NUMBER	ADJUSTMENT ITEM	DATA RANGE	STANDARD DATA	NOTE
0	SYDR	0-31	0	SYDR
1	SSHU	0-63	1	SSHU
2	SSCL	0-63	2	SSCL
3	SUPD	0-15	3	SUPD
4	SVPD	0-15	4	SVPD
5	SDLY	0-3	5	SDLY
6	SU2P	0-15	6	SU2P
7	SV2P	0-15	7	SV2P
8	SY2D	0-3	8	SY2D
9	SU2D	0-15	9	SU2D
10	SV2D	0-15	10	SV2D
11	SPRE	0-3	11	SPRE

DAC (D/A Converter)

ITEM NUMBER	ADJUSTMENT ITEM	DATA RANGE	STANDARD DATA	NOTE
0	UVSH	0-63	31	YUV SUB HUE
1	UVSC	0-63	31	YUV SUB COLOR

PI (Picture In Picture S Series only)

ITEM NUMBER	ADJUSTMENT ITEM	DATA RANGE	STANDARD DATA	NOTE
0	PIPH		-	PIP H POSITION
1	PIPV		-	PIP V POSITION
2	PYSD		-	PIP SELECT DELAY
3	PYDL		-	PIP Y DELAY
4	PHDL		-	H PULSE DELAY
5	PMVD		-	MAIN V-PULSE DELAY
6	PVVD		-	INSET V-PULSE DELAY
7	PCON		-	INSET CONTRAST
8	FRMY		-	FRAME Y
9	IPER		-	PIP PEDESTAL R-Y
10	IPEB		-	PIP PEDESTAL B-Y
11	PCPS		-	PIP CLP
12	PCPF		-	PIP CLP CYCLES
13	PPLL		-	PIP PLL TIME CONSTANT
14	PVNR		-	PIP VSP PULSE NOISE REDUCTION

ID (Identification)

ITEM NUMBER	ADJUSTMENT ITEM	DATA RANGE	STANDARD DATA	NOTE
0	AREA	0-3	0	AREA ID
1	SERS	0-3	0	SERIES ID
2	VCHP	0-3	0	V CHIP ID

CCD (Closed Caption Decoder)

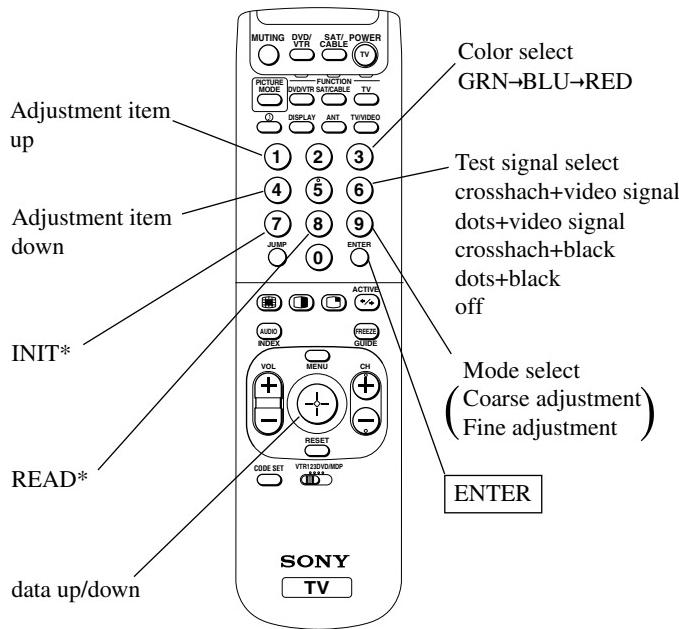
ITEM NUMBER	ADJUSTMENT ITEM	DATA RANGE	STANDARD DATA	NOTE
0	CCHP	0-63	39	OSD H POSITION
1	CCHN	0-63	29	NO FUNCTION

OP (Option)

ITEM NUMBER	ADJUSTMENT ITEM	DATA RANGE	STANDARD DATA	NOTE
0	DISP	0-63	9	OSD H POSITION
1	FW1	0-7	2	FIELD1 WINDOW
2	FW2	0-7	3	FIELD2 WINDOW

3-10. REGISTRATION ADJUSTMENT (PJE)

- FUNCTION OF BUTTONS OF REMOTE COMMANDER FOR PJE MODE.



INIT*: Press 7, "INIT" green letters appear on the screen.

Then press ENTER, all the PJE data are reset.

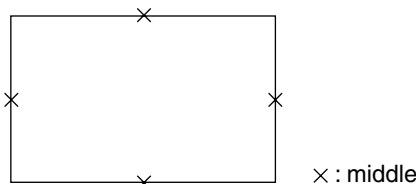
READ*: Press 8, "READ" green letters appear on the screen.

Then press ENTER, all the PJE default data are restored.

Note: Internal patterns are used for geometry and convergence adjustments. However, sizing and centering must be done with the use of an external generator. The recommended pattern would be a monoscope, or equivalent pattern, which would provide the means to adjust both the linearity and sizing of the picture.

[SETUP FOR ADJUSTMENT]

- Current flow in circuit should be stable before attempting adjustment. So wait 5 minutes after turning on the TV power.
- At the 4 insides of the screen, locate the middle. Use a tape measure to identify the middle.

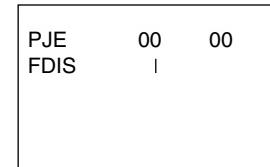


- Set to the service mode by pressing quickly keys on the remote commander in the standby mode in the following order:

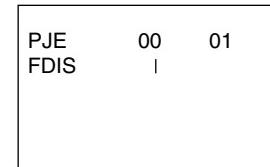
DISPLAY → **5** → **VOL+** → **TV POWER**

- Change TV mode to the video input mode.

- Change the VPNT mode to the PJE 00 FDIS.

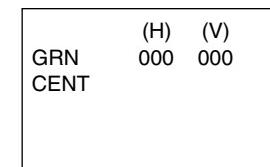


- Set FDIS data to "01" to display the registration data of each spot in the fine adjustment.



- Press **6** to display the test signal (crosshatch) on the screen.

- Select GRN CENT(*) with the **1** and **4** keys on the remote commander and check that the adjustment data is now "000" both vertically and horizontally.



*: In the factory preset, "GRN CENT" appears on the screen first.

In case of other colors "RED" or "BLU", change color by every pressing **3** key.

- Cover the both red and blue picture lenses with the lens caps to show only the green color.

SUB DEFLECTION ADJUSTMENT ITEM

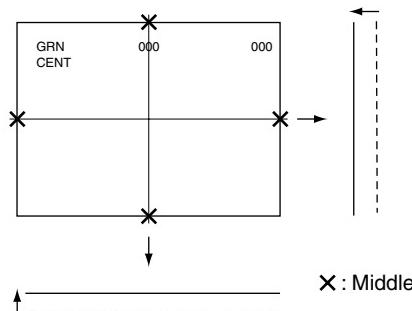
Adjustment O : Yes – : No

Display	Adjustment item	Adjustment type		
		G	R	B
H/V	H/V	H/V	H/V	H/V
CENT	CENT	O/O	O/O	O/O
SKEW	SKEW	O/O	O/O	O/O
SIZE	SIZE	–/–	O/O	O/O
LIN	LIN	–/–	O/–	O/–
KEY	KEY	–/–	–/O	–/O
PIN	PIN	–/O	–/O	–/O

[GREEN REGISTRATION ADJUSTMENT]

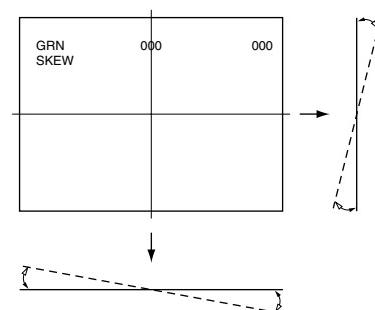
<GREEN CENTER>

1. Select GRN CENT [1] and [4] keys on the remote commander.
2. Adjust the center of crosshatch line goes the middle vertically and horizontally (GRN CENT) with the joystick on the remote commander.



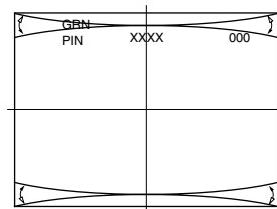
<GREEN SKEW>

1. Select GRN SKEW with the [1] and [4] keys on the remote commander.
2. Adjust the crosshatch line goes straight vertically and horizontally with the joystick on the remote commander.



<GREEN PINCUSHION>

1. Select GRN PIN with the [1] and [4] keys on the remote commander.
2. Adjust the crosshatch line goes straight horizontally with the joystick on the remote commander.

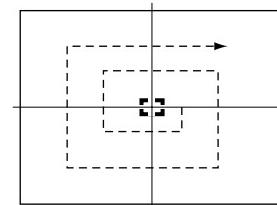


Note : These are required when either severe miss-adjustment or data loss occurred.

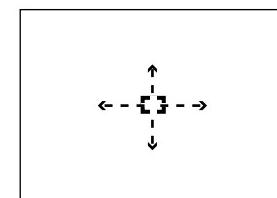
<FINE ADJUSTMENT>

1. Press [9] key on the remote commander to shift to the fine adjustment mode.
2. Use the [1] and [4] keys or the joystick on the remote commander, move the cursor (see below) everywhere you want to adjust and adjust with the joistic keys on the remote commander.

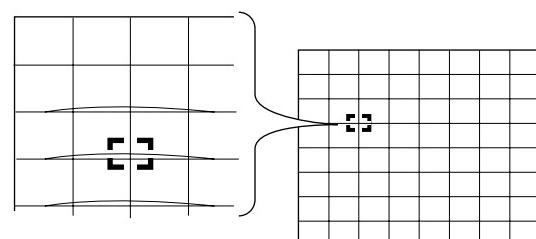
Marker movement by the [1] and [4] keys:



Press once the joystick the cursor turns green to white. Then you can move the cursor up and down left and right everywhere you want.



Press once the joystick the cursor stops and returns green, you can adjust around the cursor.



3. Press [9] key on the remote commander to shift to the coarse adjustment mode.

[RED REGISTRATION ADJUSTMENT]

<RED CENTER, SKEW>

1. Cover the blue picture lens with the lens cap to show the green and red colors.
2. Press [3] key on the remote commander to shift the GRN mode to the RED mode.
3. Select RED CENT or RED SKEW with the [1] and [4] keys on the remote commander and adjust while tracking each other alternately.
4. Adjust the red crosshatch lines go straight vertically and horizontally and overlaps the green lines with the joystick on the remote commander.

<RED SIZE, LINEARITY>

1. Select RED SIZE (vertically and horizontally) or RED LIN (vertically) with the [1] and [4] keys on the remote commander and adjust while tracking each other alternately.
2. Adjust the red crosshatch lines go straight vertically and horizontally and overlaps the green lines with the joystick on the remote commander.

<RED KEY, PINCUSHION>

1. Select RED KEY or PINCUSHION with the [1] and [4] keys on the remote commander and adjust while tracking each other alternately.
2. Adjust the red crosshatch lines go straight horizontally and overlaps the green lines with the joystick on the remote commander.

Note : These are required when either severe miss-adjustment or data loss occurred.

<FINE ADJUSTMENT>

1. Press [9] key on the remote commander to shift to the fine adjustment mode.
The red cursor (in the RED mode) appears on the center of the screen.
2. Use the [1] and [4] keys or the joystick on the remote commander, move the cursor everywhere you want to adjust and adjust with the joystick on the remote commander.

[BLUE REGISTRATION ADJUSTMENT]

1. Remove the lens cap from the blue picture lens to show full color.
2. Press [3] key on the remote commander to shift the RED mode to the BLU mode.
3. Adjust BLU CENT, BLU SKEW, BLU SIZE, BLU LIN, BLU KEY and BLU PIN in the same procedure of the red registration adjustment.

[FINAL CHECK]

1. Store the new adjustment (offset) value on the remote control by pressing [MUTING] and [ENTER].
2. Press the FLASH FOCUS button on the front panel.
(The Offset value is now automatically stored.)
3. Check that no error message appears.
If an error message appears, recheck.

Note: In case of replacing CRTs, adjust the set-up adjustments (items 3-1 to 3-8) and the registration adjustment (item 3-10).
In case of replacing two or three CRTs at the same time, replace and adjust one by one.

3-11. AUTO REGISTRATION ERROR CODE LIST

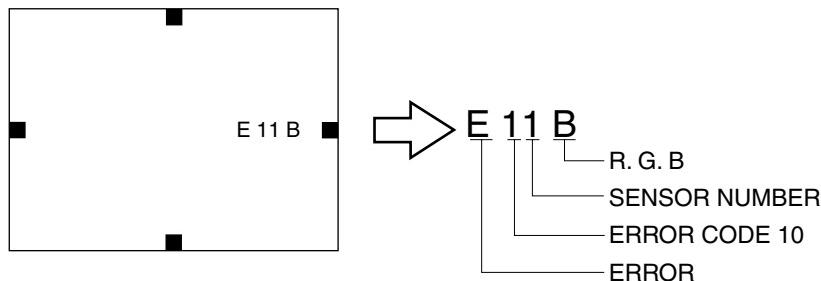
If an error code is displayed after the set has been fully adjusted, correctly, please check the following items: position, tilt and sizing. If either of these adjustments are off, even slightly, the auto-registration pattern will not hit the four sensors properly. This occurs when the internal generator patterns is being flashed on the screen for the sensors to read. Therefore, auto registration (called auto-focus) cannot operate properly causing an error code to be displayed. In order for this function to operate properly, correct position, tilt and size must be adjusted properly.

[ERROR CODE LIST]

ERROR CODE	DESCRIPTION	NOTE			
00	No Error				
10	Sensor Output Level Low	* Check wiring, beam position, sensor.	0 : Upper Center 1 : Middle Left 2 : Middle Right 3 : Lower Center		
20	Sensor Output Level High	* Check OP-amp circuit.	0 : Upper Center 1 : Middle Left 2 : Middle Right 3 : Lower Center		
30	Adjustment Loop Counter Overflow	* Check the registering information on the convergence board.			
40	Regi Data Overflow				
50	Regi Data Overflow	* Check the convergence yoke driver ICs.			
60	Offset Overflow				
70	Offset Overflow	* Convergence patterns displayed are out of normal range.			

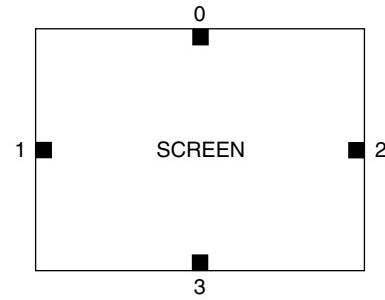
* In case of multiple error, last error is displayed.

- **ERROR CODE SCREEN DISPLAY**



* Error code will be displayed on center of screen for 3 seconds.

[SENSOR POSITION]



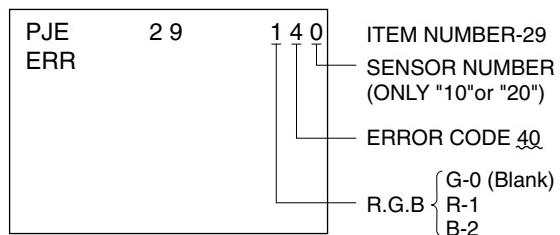
0 : UPPER SENSOR

1 : LEFT SENSOR

2 : RIGHT SENSOR

3 : LOWER SENSOR

- **ERROR CODE DISPLAY IN REGI SERVICE MODE**



SECTION 4

SAFETY RELATED ADJUSTMENTS

[G BOARD]

4-1. HV REGULATION CIRCUIT CHECK AND ADJUSTMENT

When replacing the following components marked with on the schematic diagram always check HV regulation, and if necessary re-adjust.

- : C517
- : C517, C521, C522
IC654, L504
T502, T504 (FBT)
D.Y, A board, G board

OPERATION CHECK

1. Connect a HV static voltmeter to the unconnected plug of the high-voltage block. (Fig.4-1)
2. Power on the set.
3. Receive the dot signal. (PICTURE and BRIGHTNESS to minimum)
4. Check that the HV static voltmeter is reading 31.00 ± 1.0 kVdc.

HV Regulation adjustment

1. Connect a HV static voltmeter to the unconnected plug of the hight-voltage block.
2. Power on the set.
3. Receive the dot signal. (PICTURE and BRIGHTNESS to minimum)
4. If anode voltage is 31.95kV or higher, replace C517 of 470PF/2kV with that of 680PF/2kV, and check if the voltage is within the standard range.
5. If anode voltage is 29.45kV or lower, replace C517 of 470PF/2kV with that of 100PF/2kV, and check if the voltage is within the standard range.

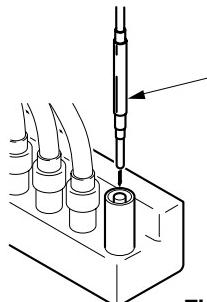


Fig. 4-1

4-2. HV HOLD DOWN CIRCUIT OPERATION CHECK AND ADJUSTMENT

When replacing the following components marked with on the schematic diagram always check hold-down voltage and if necessary re-adjust.

- : R536, R545
- : C516, C536
D506, D507, D522
IC206, IC502, IC654
L504, R511, R522, R536, R538, R545,
R548, R584
T502, T504 (FBT)
D.Y, A board, G board

OPERATION CHECK

1. Remove CN652 connector.
2. Short-circuit across TP-PROT and ground.
3. Connect a HV static voltmeter to the unconnected plug of the high-voltage block.
4. Connect a $220\Omega/200W$ variable resistor, across pin ② and pin ① of CN652 and connect an external dc power supply unit (200V, class 2A) to pin ③ of CN652.
5. First turn on the external power supply (+B=135V), then turn on the power of the set.
6. Receive the dot signal. (PICTURE and BRIGHTNESS to minimum)
7. Gradually increase the value of the external dc power supply and check that the hold-down circuit operates at a static voltmeter reading of 33.5 ± 1.0 kVdc when the raster disappears.

HV HOLD-DOWN ADJUSTMENT

1. Repart steps ① ~ ⑦ as above.
2. If hold down voltage is 34.5kV or higher, remove R536, mount a resistor ($150k\Omega, 1/4W$: RN) onto R545 instead, and check again if the hold-down voltage is within the standard range.
3. If hold down voltage is 32.5kV or lower, mount a resistor ($220k\Omega, 1/4W$: RN) onto R536 and check again if the hold-down voltage is within the standard range.

NOTE : Please finish the adjustment as soon as possible

4-3. +B MAX VOLTAGE CONFIRMATION

The following adjustments should always be performed when replacing IC654.

1. Supply 130VAC to with variable autotransformer.
2. Input a dot signal.
3. Set the PICTURE control and the BRIGHTNESS controls to minimum.
4. Confirm the voltage of G BOARD TP135V is less than 137.0Vdc.
5. If step 4 is not satisfied, replace IC654 and repeat above steps.

4-4. +B OVP CONFIRMATION

1. Connect an external dc power supply to TP OVP.
2. Supply 120VAC to variable autotransformer.
3. Set PICTURE and the BRIGHTNESS controls to minimum.
4. Gradually turn the external dc power supply, and check if OVP works properly when the voltage of the external dc power supply is between 139.0 ~ 151.5V.

SECTION 5

CIRCUIT ADJUSTMENTS

5-1. TV INPUT SUB CONTRAST ADJUSTMENT (VPNT-SCON)

1. Receive the color-bar signal.
2. Mode : Personal 1 or 2.

PICTURE	: maximum
COLOR	: maximum
BRIGHTNESS	: center
TRINITONE	: medium
SERVICE DATA VPNT SCON	: 7
3. Set to service mode.
4. Connect an oscilloscope between pin ⑦ of CN204 (A board) and ground.
5. Select " VPNT-SCON ", and adjust so that the wave from level is $1.90 \pm 0.05\text{Vp-p}$.
6. Write the data into memory.

MUTING → **ENTER**

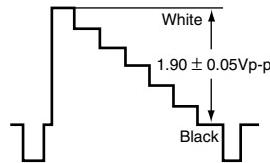


Fig. 5-1

5-2. VIDEO INPUT SUB-HUE AND SUB-COLOR ADJUSTMENT (VPNT-SHUE, SCOL)

1. Select VIDEO1 input and supply the color-bar signal.
2. Mode : Personal 1 or 2.

PICTURE	: maximum
COLOR	: center
BRIGHTNESS	: center
TRINITONE	: medium
SERVICE DATA VPNT-SHUE	: 7
VPNT-SCOL	: 7
3. Set to service mode.
4. Connect an oscilloscope between pin ⑤ of CN204 (A board) connector and ground.
5. Select " VPNT-SHUE, SCOL ", and adjust them to have VB1 = VB4 and VB2 = VB3 in the waveform levels.
6. Increase SCOL by 2 steps.
7. Write the data into memory.

MUTING → **ENTER**

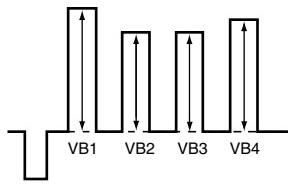


Fig. 5-2

5-3. COMPONENT INPUT SUB-HUE AND SUB-COLOR ADJUSTMENT (DAC-UVSH, UVSC)

1. Select VIDEO 4 and supply the color-bar signal.
 VIDEO input
2. Mode : Personal 1 or 2.

PICTURE	: maximum
COLOR	: center
BRIGHTNESS	: center
TRINITONE	: medium
SERVICE DATA DAC UVSH	: 31
DAC UVSC	: 31
3. Set to service mode.
4. Connect an oscilloscope between pin ⑤ of CN204 (A board) connector and ground.
5. Select " DAC-UVSH, UVSC ", and adjust them to have VB1 = VB4 and VB2 = VB3 in the waveform levels.
6. Write the data into memory.

MUTING → **ENTER**

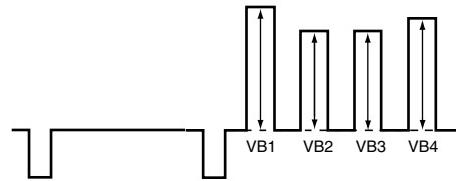


Fig. 5-3

5-4. P & P SUB CONTRAST ADJUSTMENT (SC-SYDR)

1. Receive the signal.
 TV terminal (sub) : color-bar signal
 VIDEO terminal (main) : no signal
2. Set to service mode and set to P & P mode.
3. Connect an oscilloscope between pin ⑦ of CN204 (A board) and ground.
4. Select " SC-SYDR ", and adjust so that the wave from level is $1.75 \pm 0.05\text{Vp-p}$.
5. Write the data into memory.

MUTING → **ENTER**

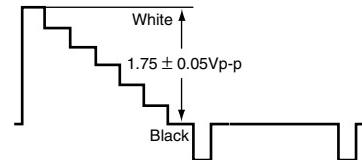


Fig. 5-4

5-5. SUB-HUE , SUB-COLOR AND MAIN CONTRAST ADJUSTMENT (MC-MYDR, MSHU, MSCL, SC-SSHU, SSCL)

1. Receive the color-bar signal.
2. Mode : Personal 1 or 2.
 PICTURE : maximum
 COLOR : center
 BRIGHTNESS : center
 TRINITONE : medium
 SERVICE DATA MC-MYDR : 22
 MC-MSHU : 31
 MC-MSCL : 31
 SC-SSHU : 31
 SC-SSCL : 31
3. Set to service mode and set to P & P model .
4. Connect an oscilloscope between pin ⑤ of CN204 (A board) connector and ground.
5. Select " MC-MYDR ", and adjust them to have VB1 = VB5 in the waveform levels.
6. Select " MC-MSCL, SC-SSCL " and adjust so that the wave form shows VB1=VB4 and VB5=VB8.
7. Select " MC-MSHU, SC-SSHU " and adjust so that the wave form shows VB2=VB3 and VB6=VB7.
8. Write the data into memory.

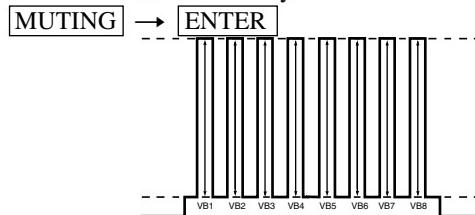


Fig. 5-5

5-6. BAR DISPLAY POSITION ADJUSTMENT (OP-DISP)

1. Receive the monoscope signal.
2. Set to service mode.
3. Push " PICTURE + " . (Bar is displayed)
4. Select " OP-DISP ", and adjust so that the bar is as shown in the figure.
5. Write the data into memory.

MUTING → **ENTER**

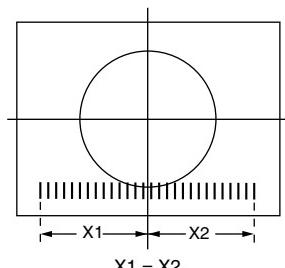


Fig. 5-6

5-7. PIP ACQUISITION AREA ADJUSTMENT (PP-MAHP, SAHP)

1. Set the SPLIT mode.
2. Receive the monoscope signal on the main/sub picture.
3. Check the monoscope position of each picture.

$$A=B$$

4. If necessary, set to service mode and adjust "PP-MAHP, SAHP".
5. Write the data into memory.

MUTING → **ENTER**

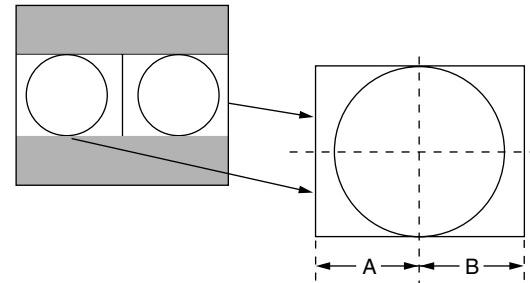


Fig. 5-7

5-8. DISPLAY POSITION FOR CHANNEL INDEX MODE (CCD-CCHP)

1. Recive the broadcast signal for main picture.
2. Set to service mode.
3. Select index mode.
4. Adjust " CCD-CCHP " to get all channel number displays into picture area without being on border.
5. Write the data into memory.

MUTING → **ENTER**

2X	5X	7X	9X
125X		5	11X
36X			13X
23X	19X	17X	14X

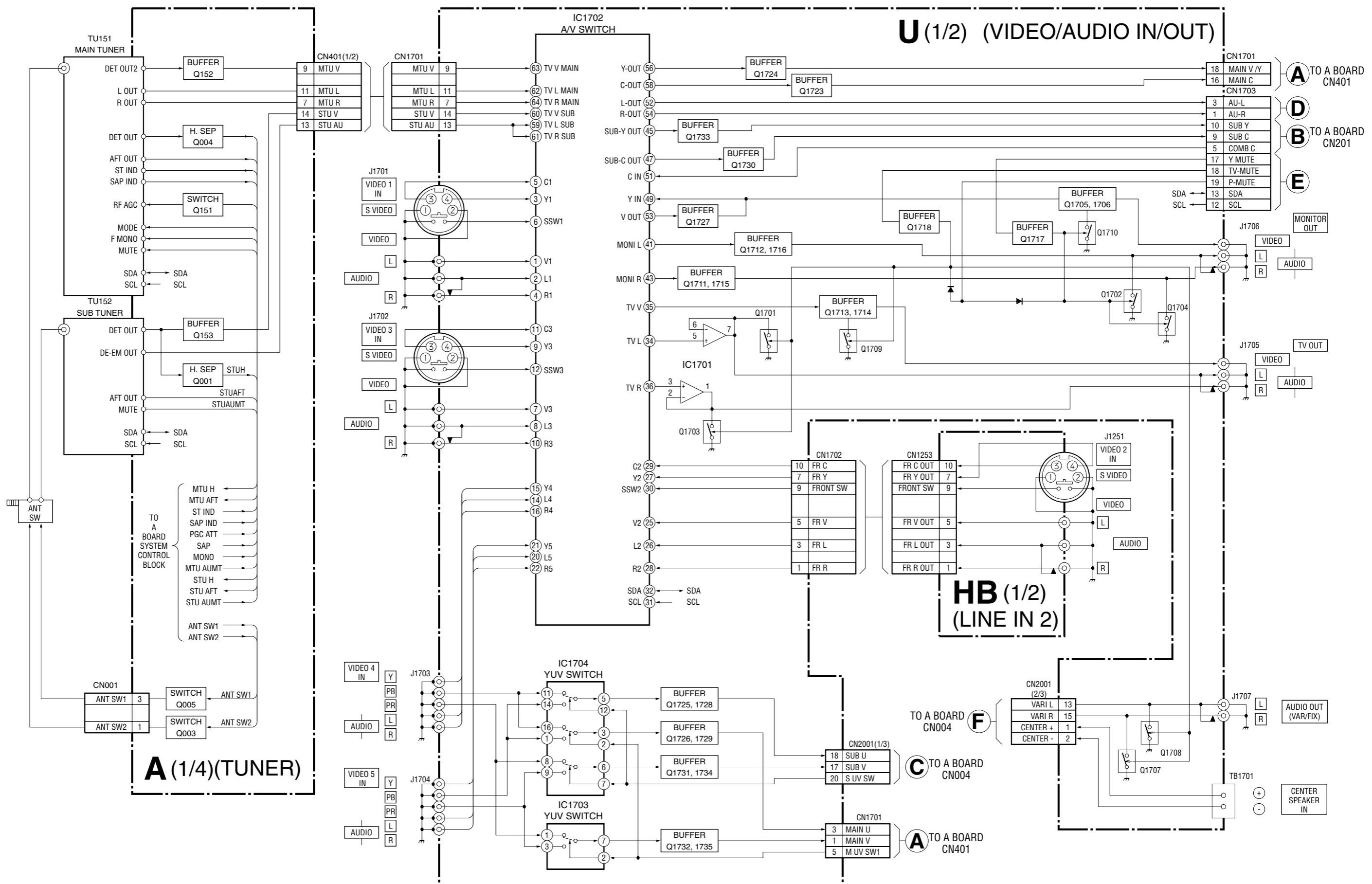
KEEP ONE CHARACTER SPACE BETWEEN CH# AND BORDER.

Fig. 5-8

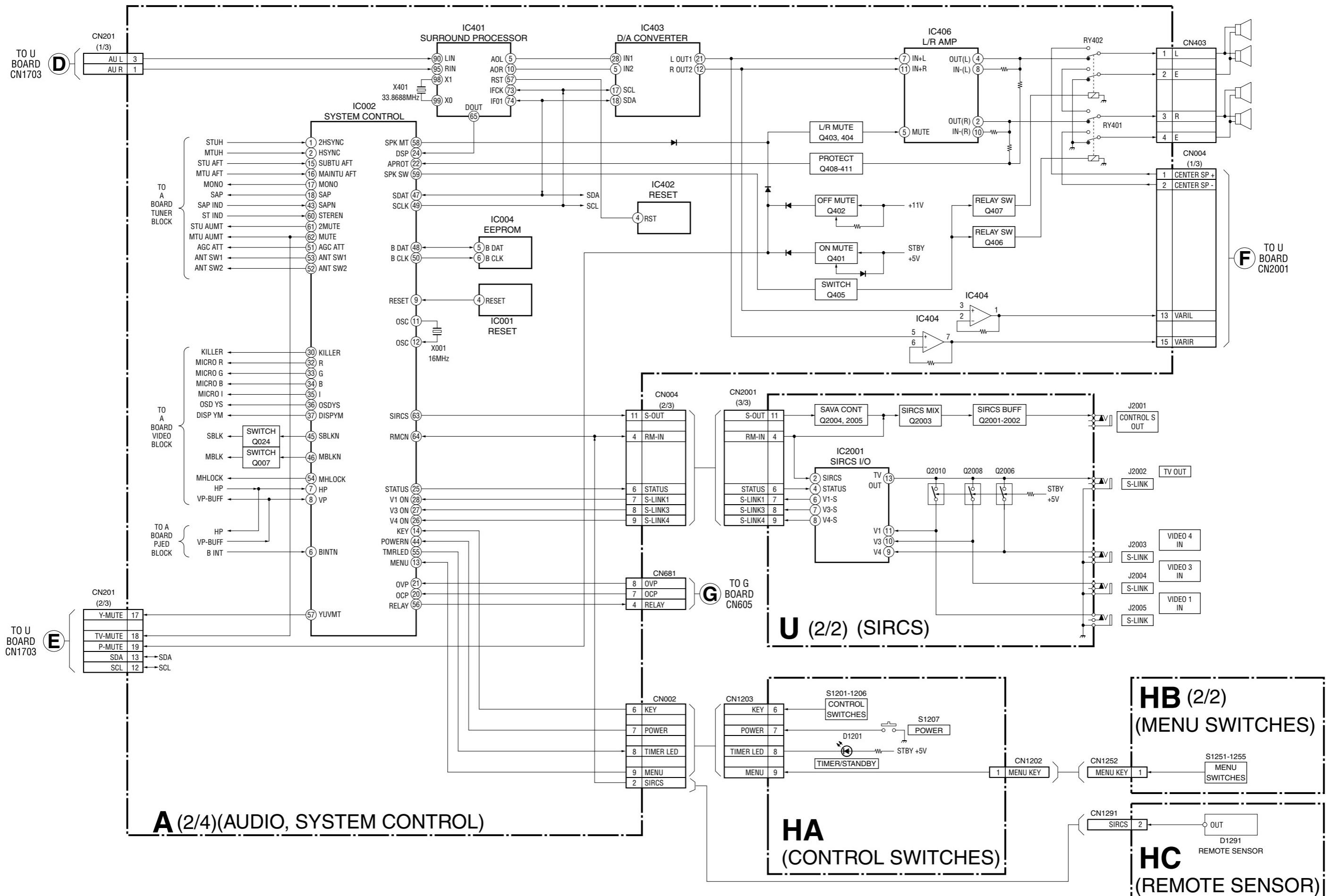
MEMO

SECTION 6 DIAGRAMS

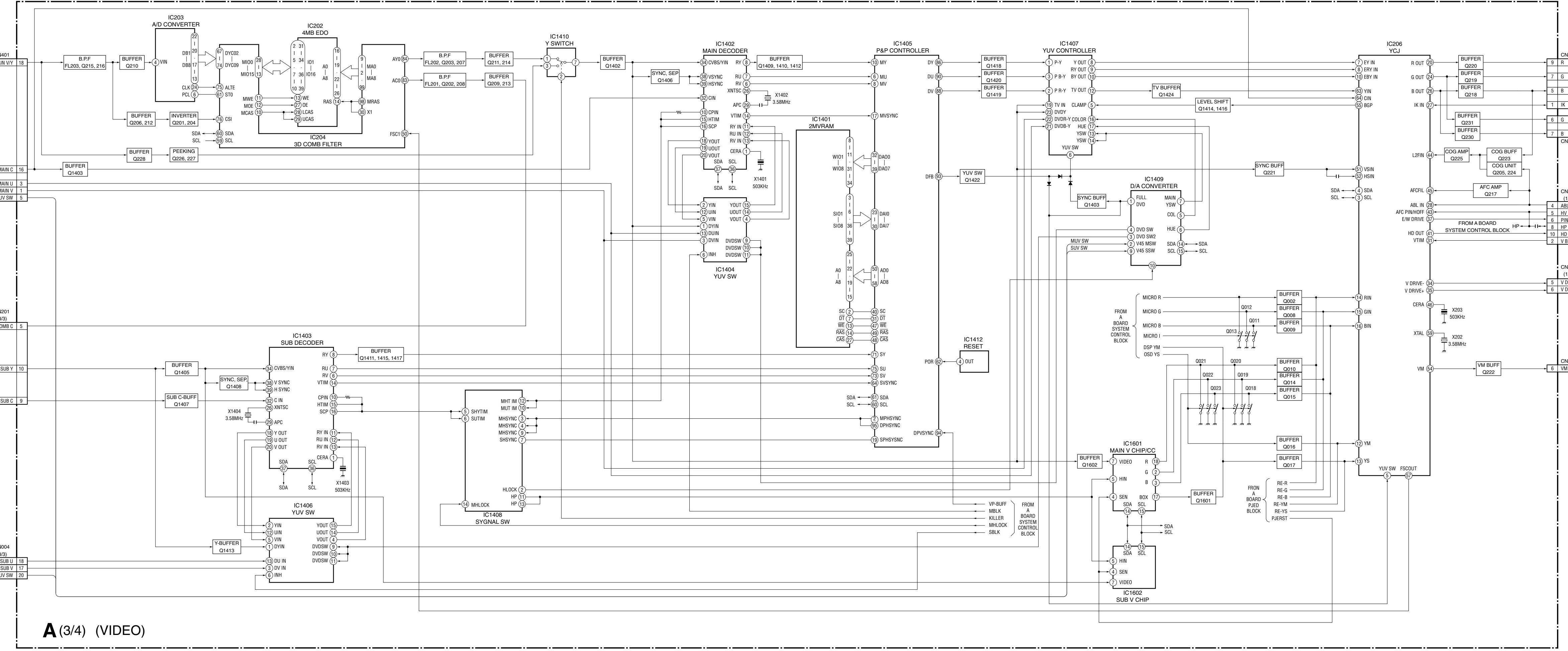
6-1. BLOCK DIAGRAM (1)



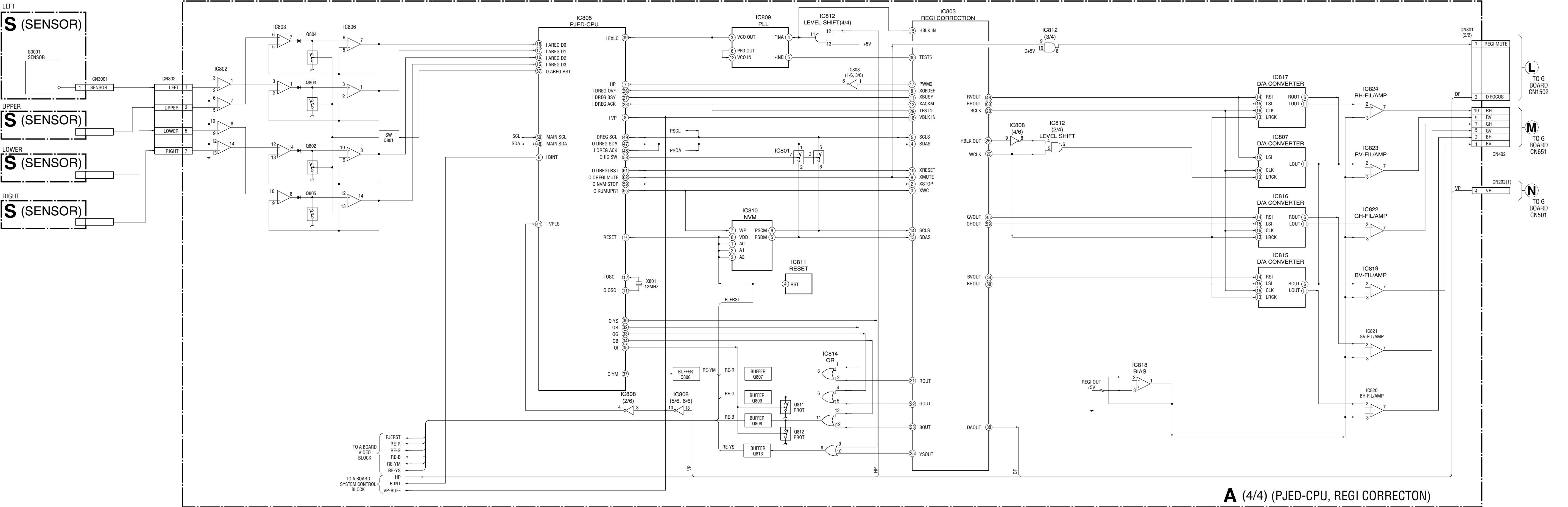
BLOCK DIAGRAM (2)



GRAM (3)

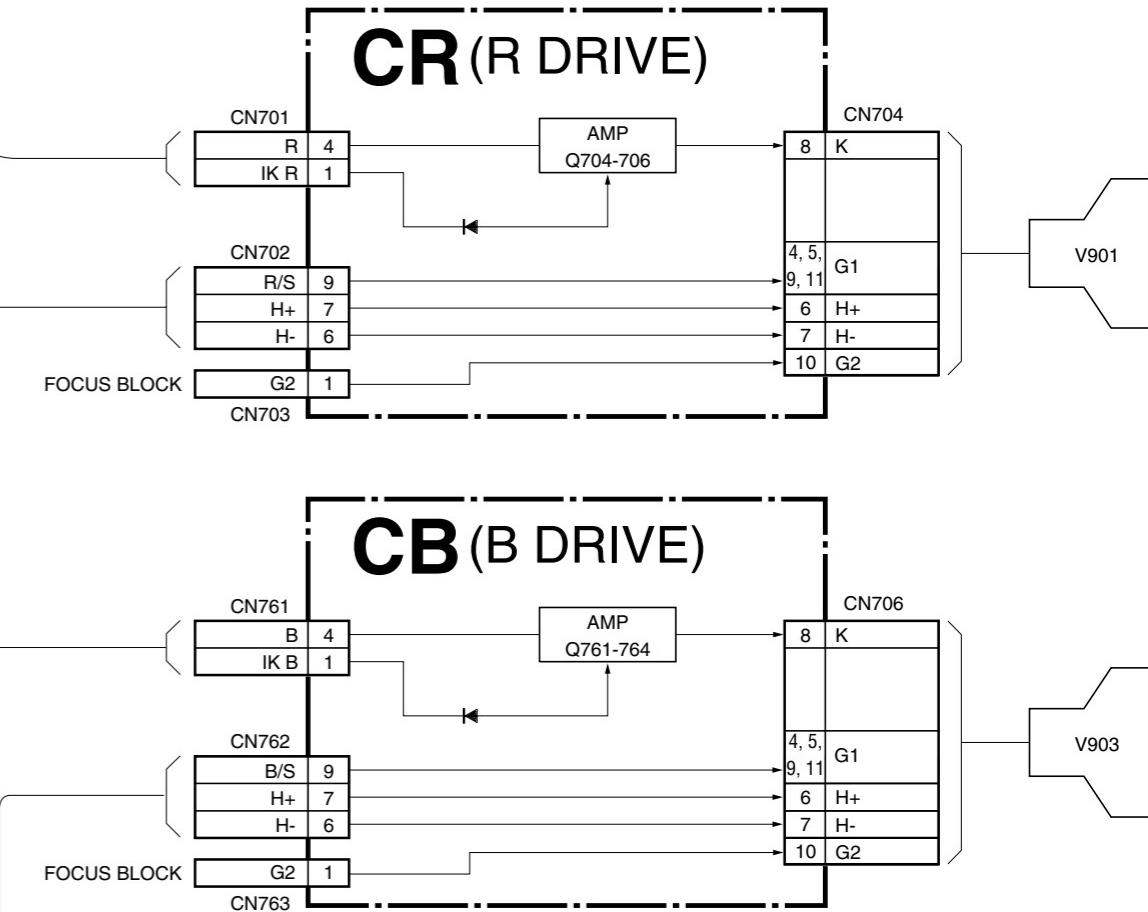
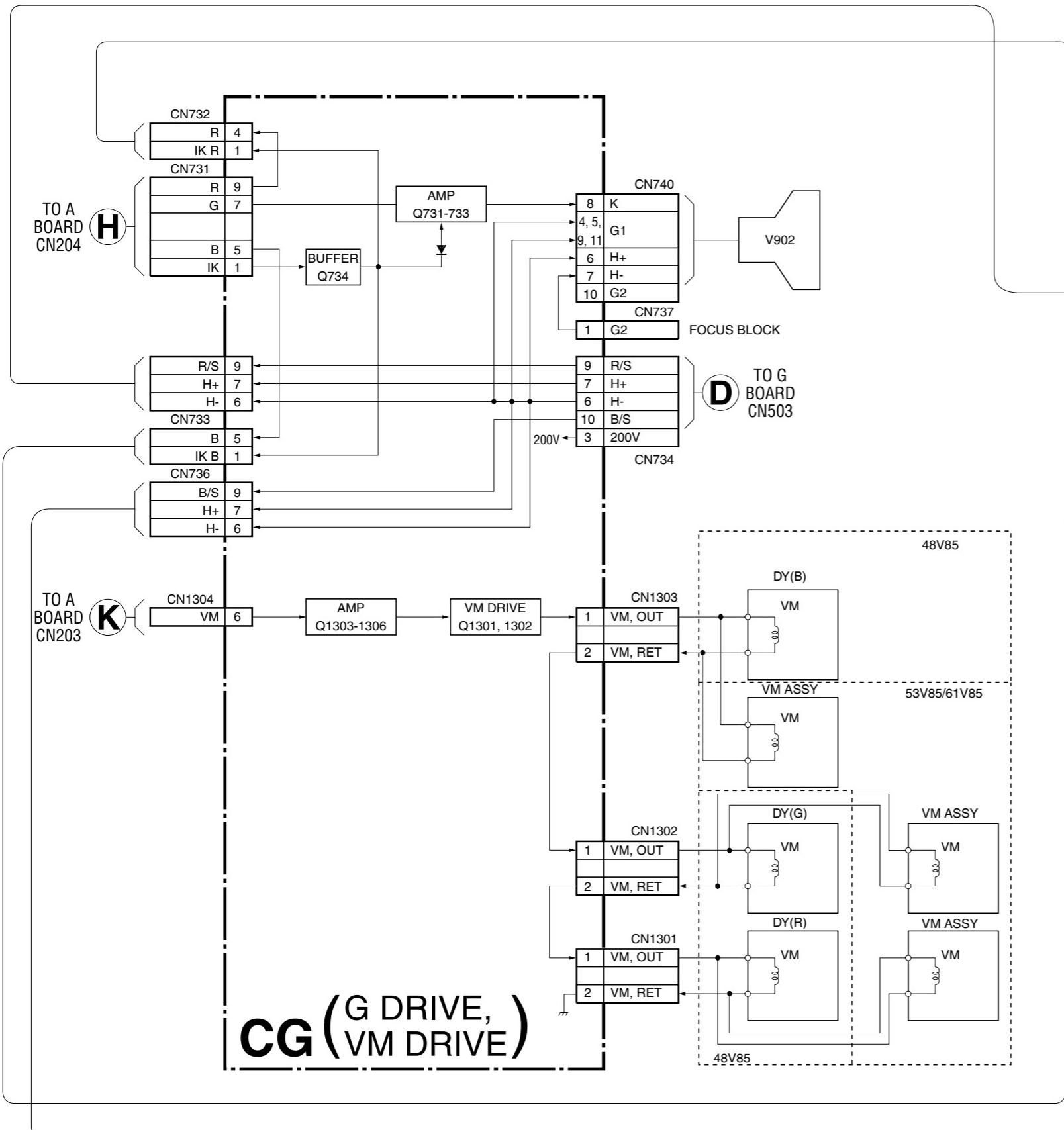


BLOCK DIAGRAM (4)

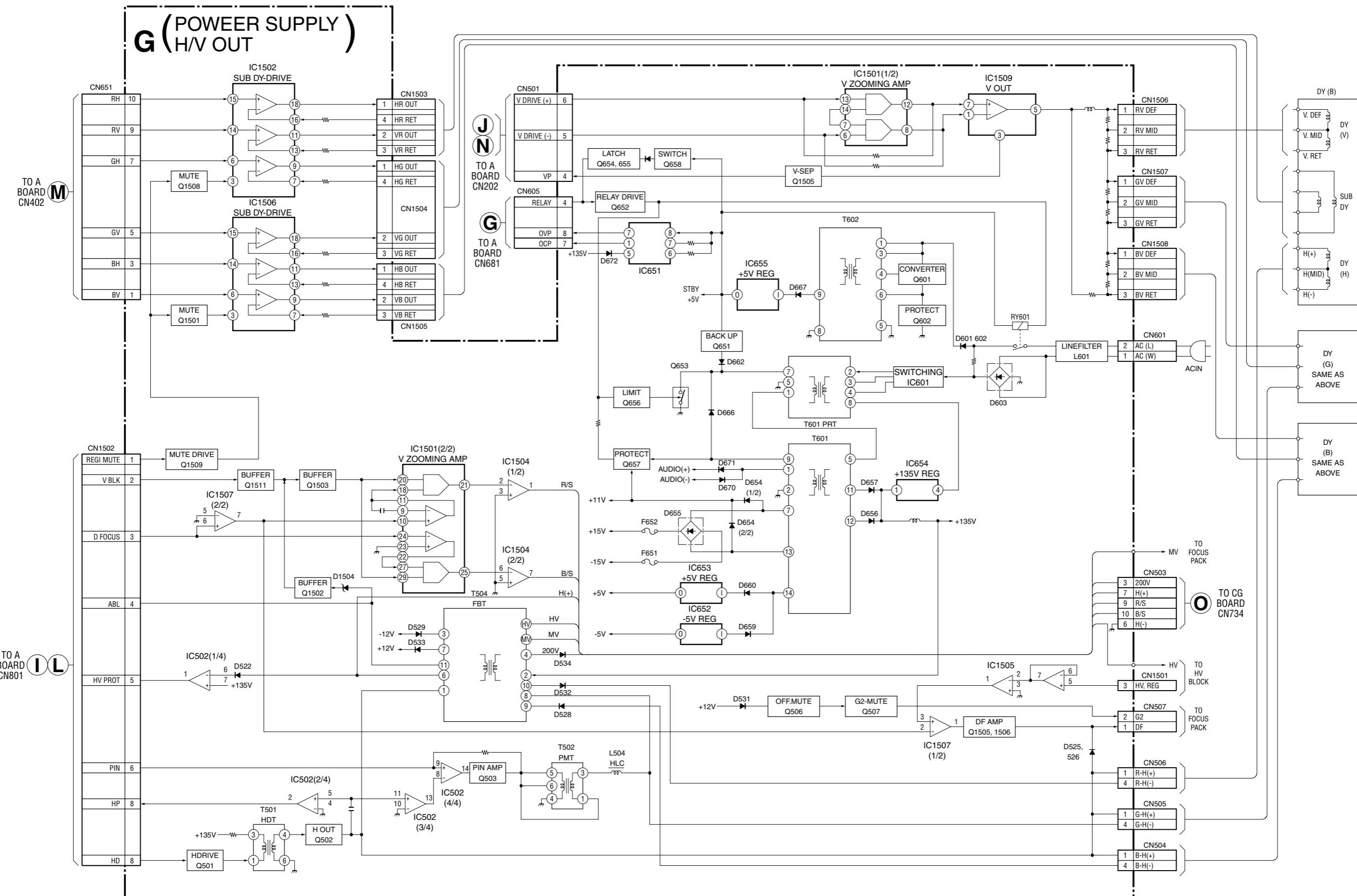


A (4/4) (PJED-CPU, REG

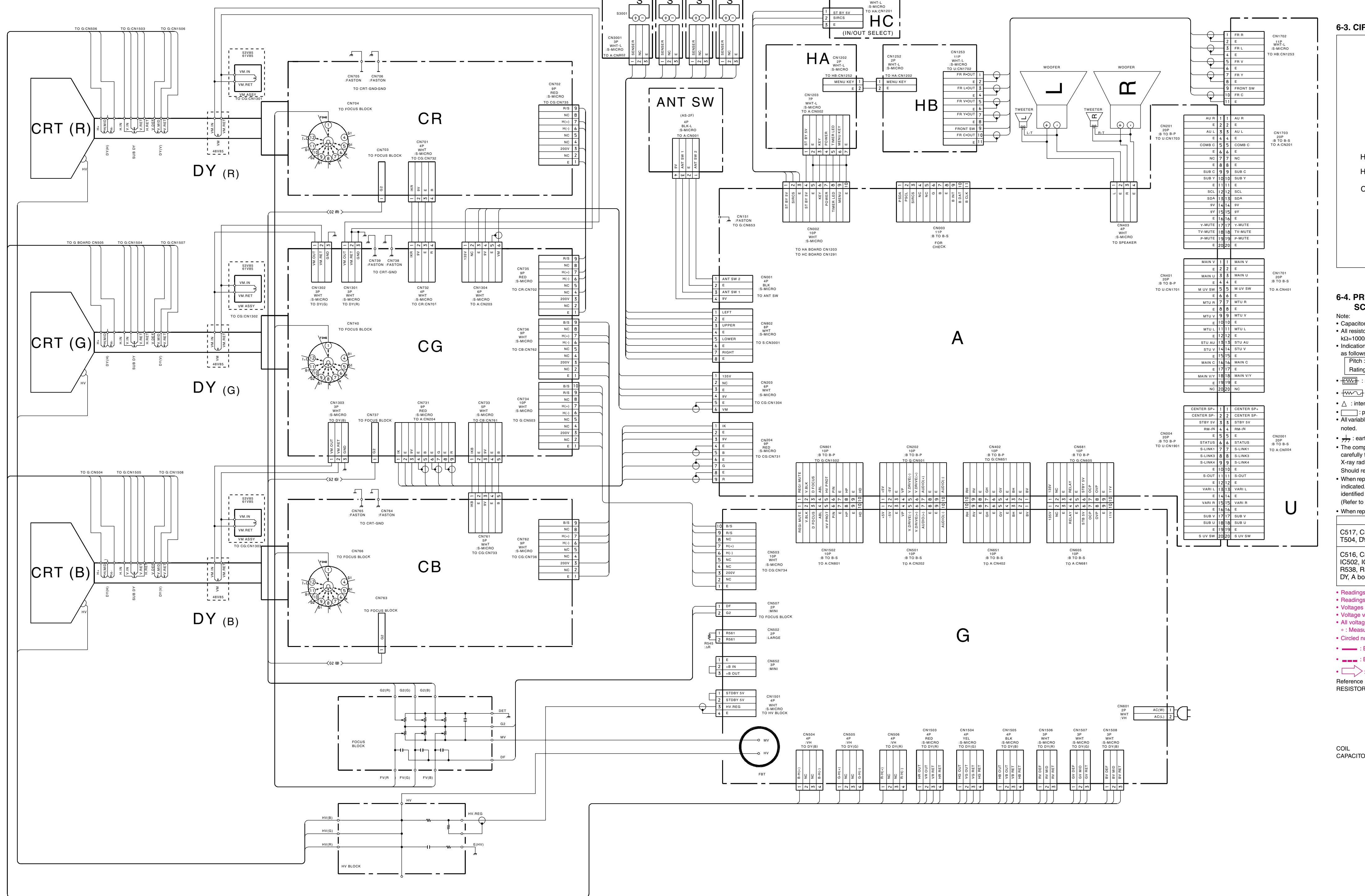
BLOCK DIAGRAM (5)



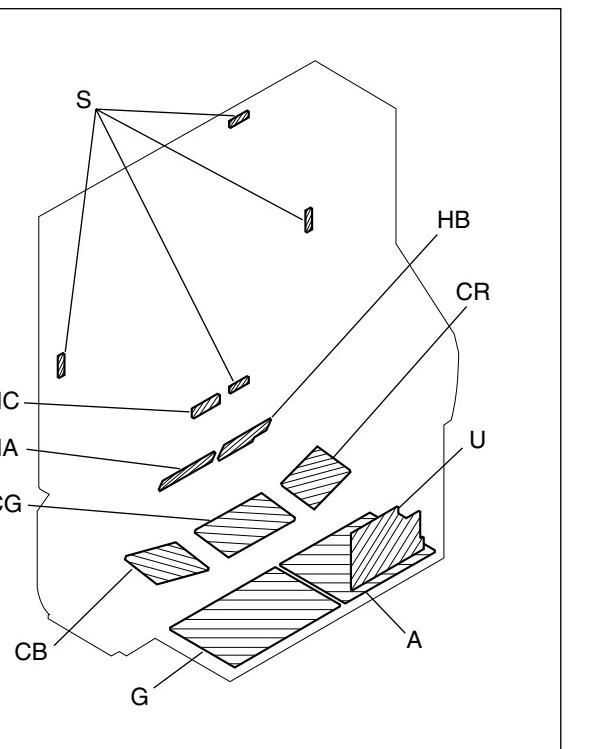
BLOCK DIAGRAM (6)



6-2. FRAME SCHEMATIC DIAGRAM



6-3. CIRCUIT BOARDS LOCATION



Note: The symbol display is on the component side.
The components identified by shading and mark are critical for safety. Replace only with part number specified.
The symbol indicate fast operating fuse. Replace only with fuse of same rating as marked.

Note: Les composants identifiés par un trame et une marque sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le même numéro spécifié.
Le symbole indique une fusible à action rapide. Doit être remplacée par une fusible de même valeur, comme marqué.

6-4. PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

Device	Printed symbol	Terminal name	Circuit
①	Transistor	Collector Base Emitter	
②	Transistor	Collector Base Emitter	
③	Diode	Cathode Anode	
④	Diode	Cathode Anode (NC)	
⑤	Diode	Cathode Anode (NC)	
⑥	Diode	Common Anode Cathode	
⑦	Diode	Common Anode Cathode	
⑧	Diode	Common Anode Cathode	
⑨	Diode	Common Anode Cathode	
⑩	Diode	Common Cathode Cathode	
⑪	Diode	Common Cathode Cathode	
⑫	Diode	Common Anode Anode	
⑬	Transistor (FET)	Drain Source Gate	
⑭	Transistor (FET)	Drain Source Gate	
⑮	Transistor (FET)	Drain Source Gate	
⑯	Transistor	Collector Base	
⑰	Transistor		
⑱	Transistor		
⑲	Transistor		
⑳	Transistor		
㉑	Transistor		
㉒	Transistor		
㉓	Transistor		

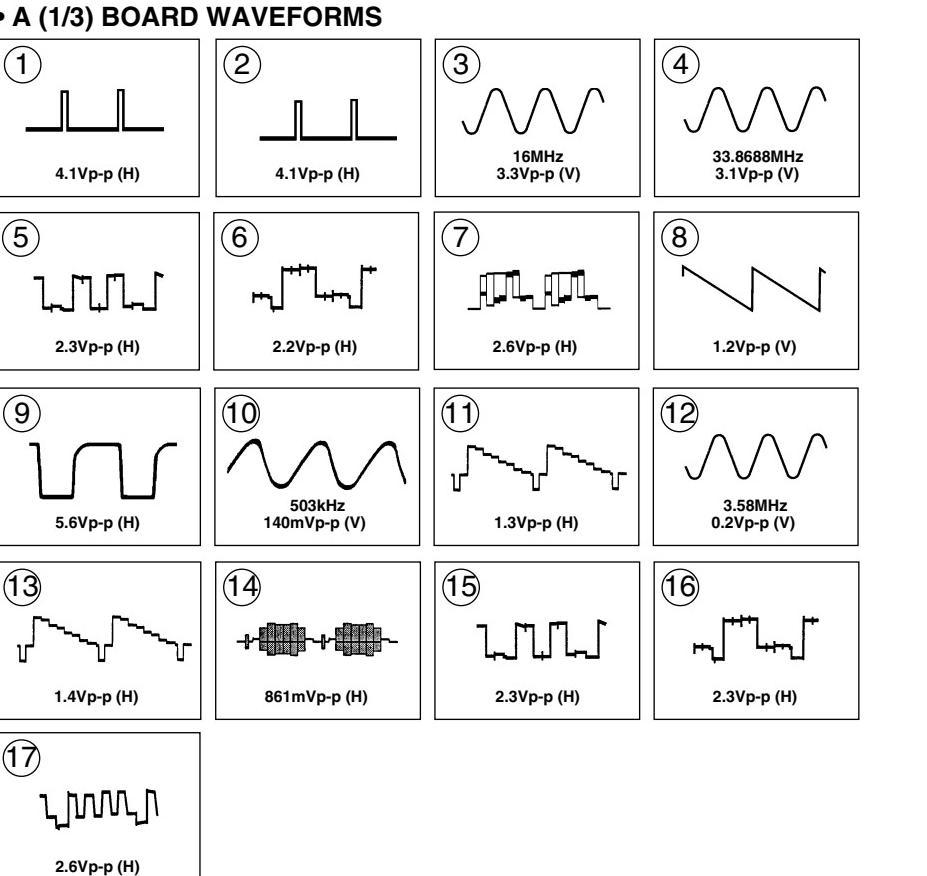
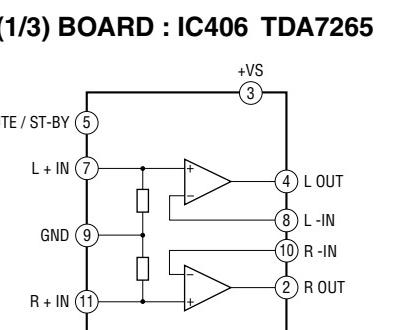
- Readings are taken with a color-bar signal input.
- Readings are taken with a 10MΩ digital multimeter.
- Voltages are dc with respect to ground unless otherwise noted.
- Voltage variations may be noted due to normal production tolerances.
- All voltages are in V.
- : Measurement impossibility.
- Circle numbers are waveform references.
- : B+ bus.
- : B- bus.
- : signal path (RF)

Reference Information

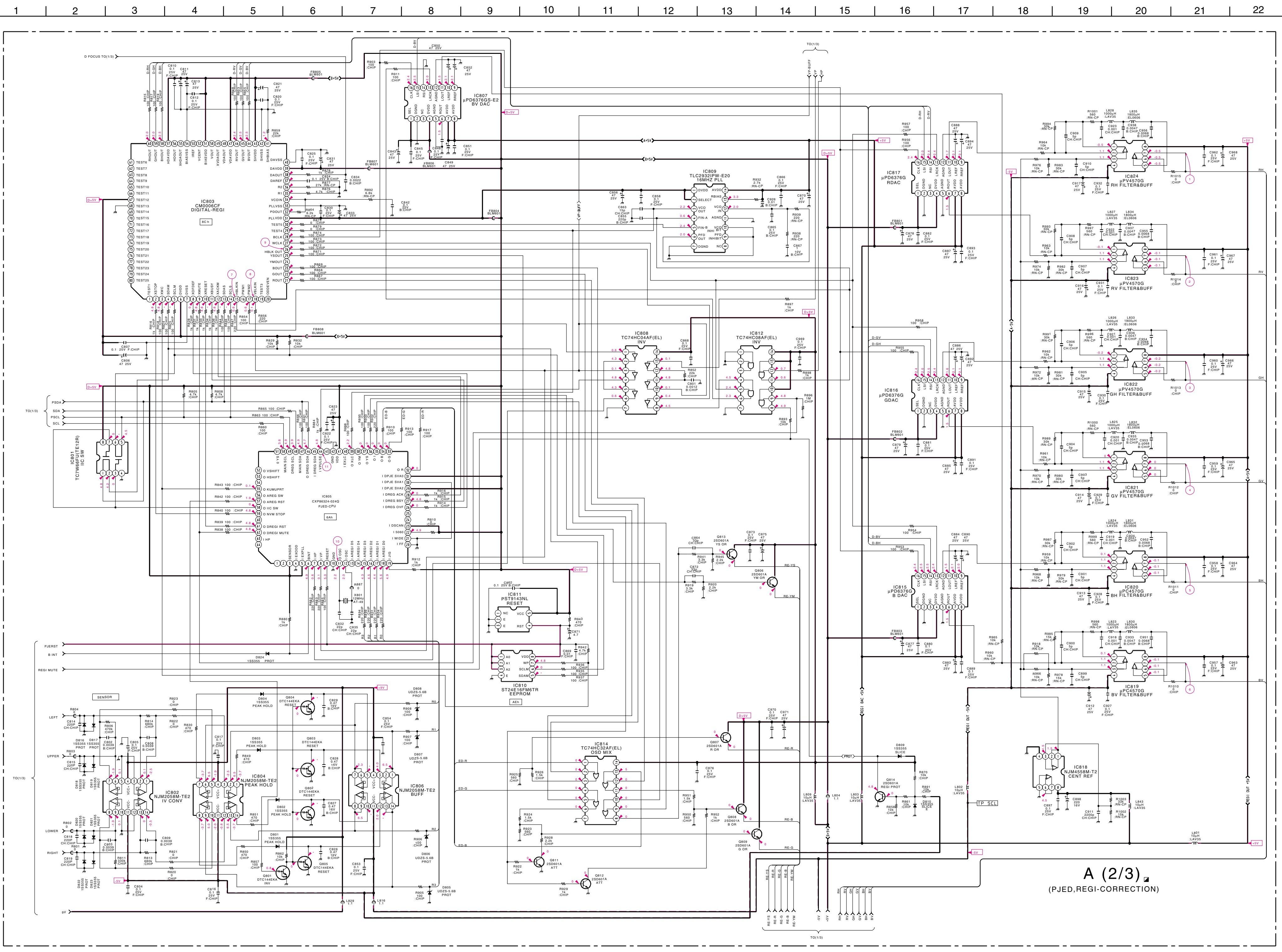
RESISTOR	: RN METAL FILM
	: RC SOLID
	: FPRD NONFLAMMABLE CARBON
	: FUSE NONFLAMMABLE FUSIBLE
	: RW NONFLAMMABLE WIREWOUND
	: RS NONFLAMMABLE METAL OXIDE
	: RB NONFLAMMABLE CEMENT
	: ADJUSTMENT RESISTOR
COIL	: LF-8L MICRO INDUCTOR
CAPACITOR	: TA TANTALUM
	: PS STYROL
	: PP POLYPROPYLENE
	: PT MYLAR
	: MPS METALIZED POLYESTER
	: MPP METALIZED POLYPROPYLENE
	: ALB BIPOLAR
	: ALT HIGH TEMPERATURE
	: ALR HIGH RIPPLE

(Chip semiconductors that are not actually used are included.)

Ver.1.6

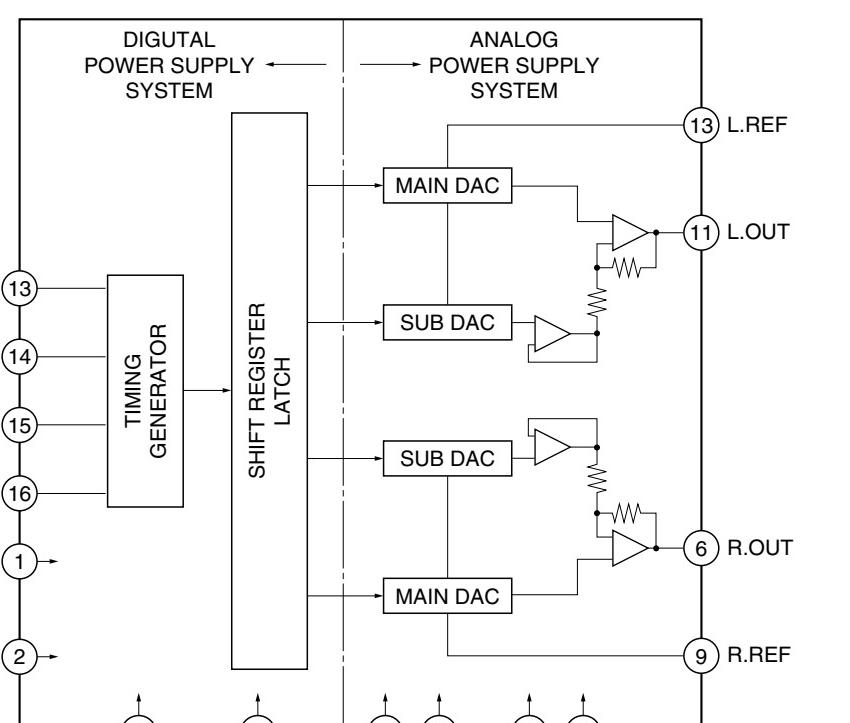


(1/3) □ Q406
2SD601A
RELAY SW
NER.YCJ.SYSTEM CONTROL.AUDIO)

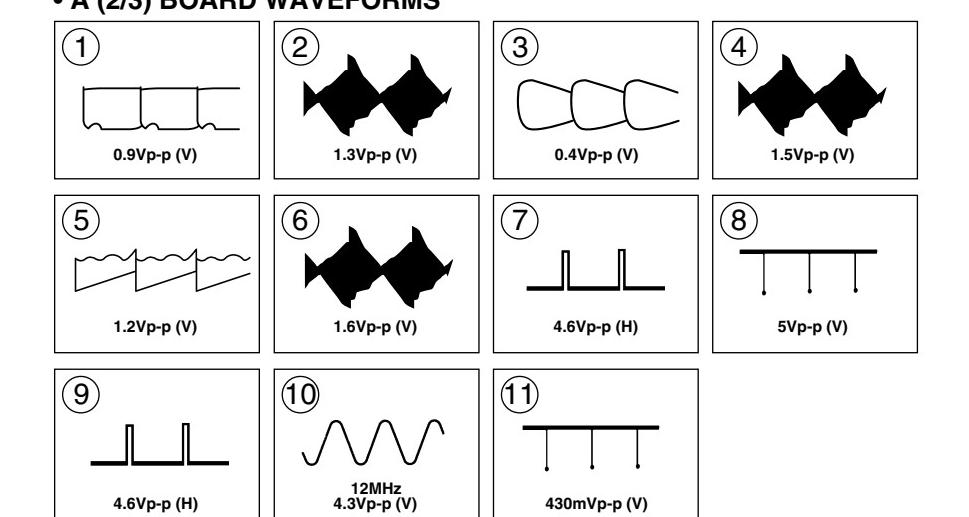


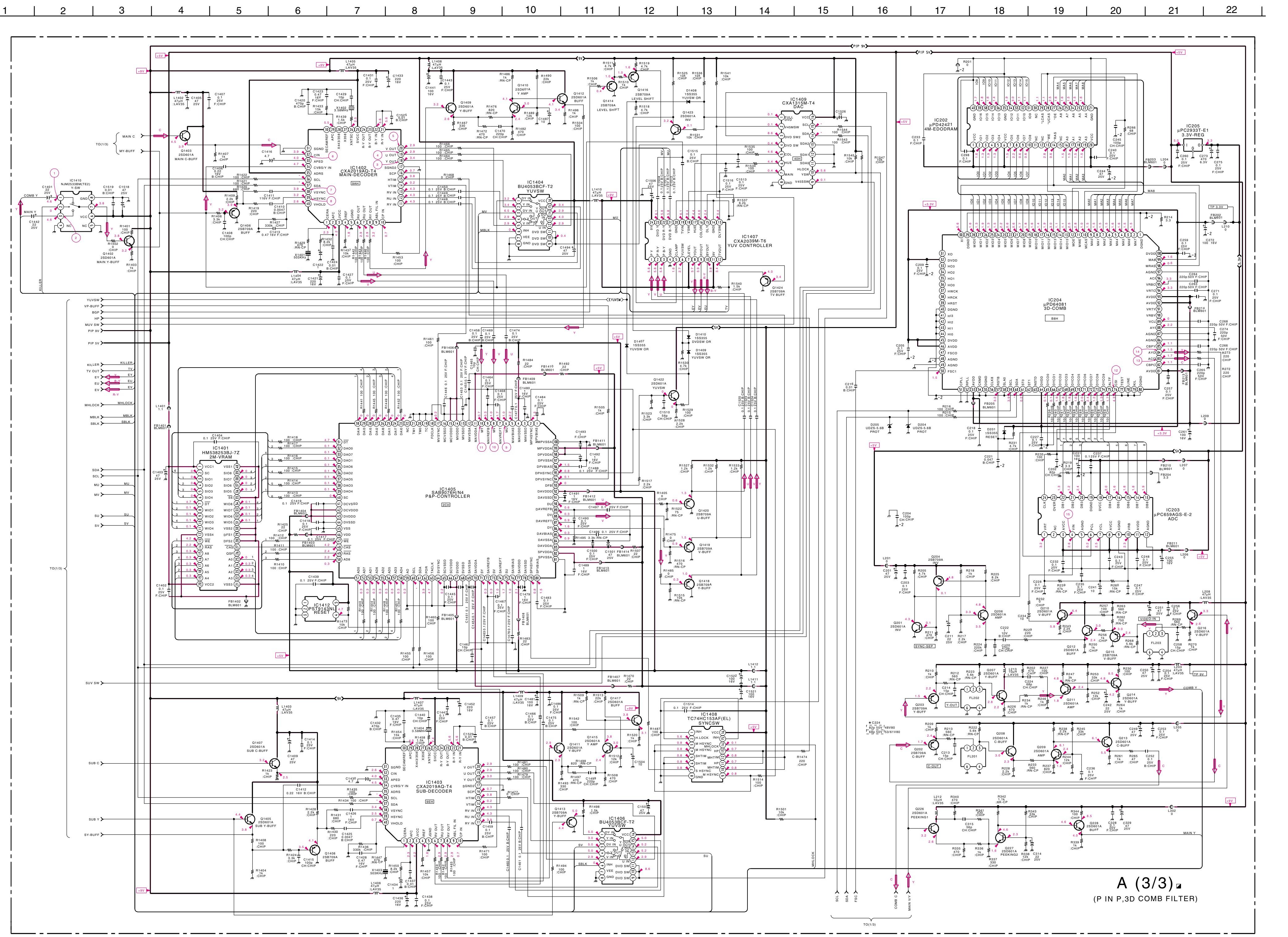
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(PJED, REGI-CORRECTION)

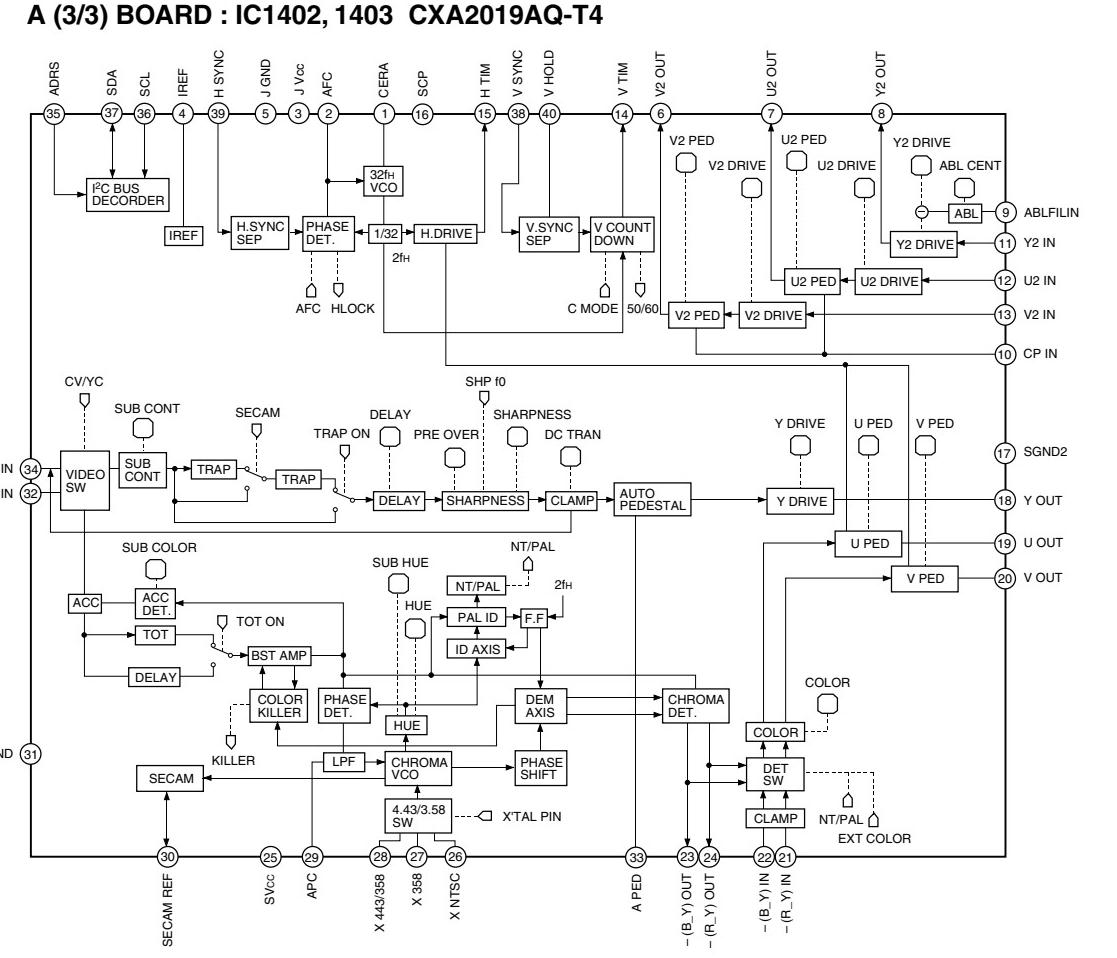
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 μ PD6376GS-E2



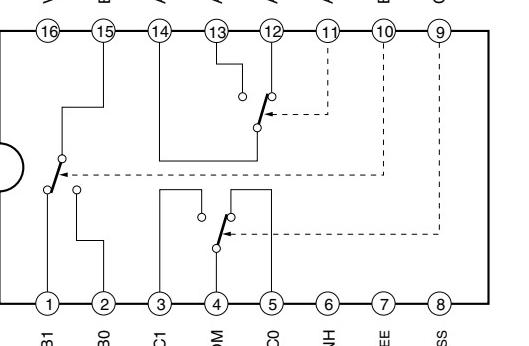
• A (2/3) BOARD WAVEFORMS



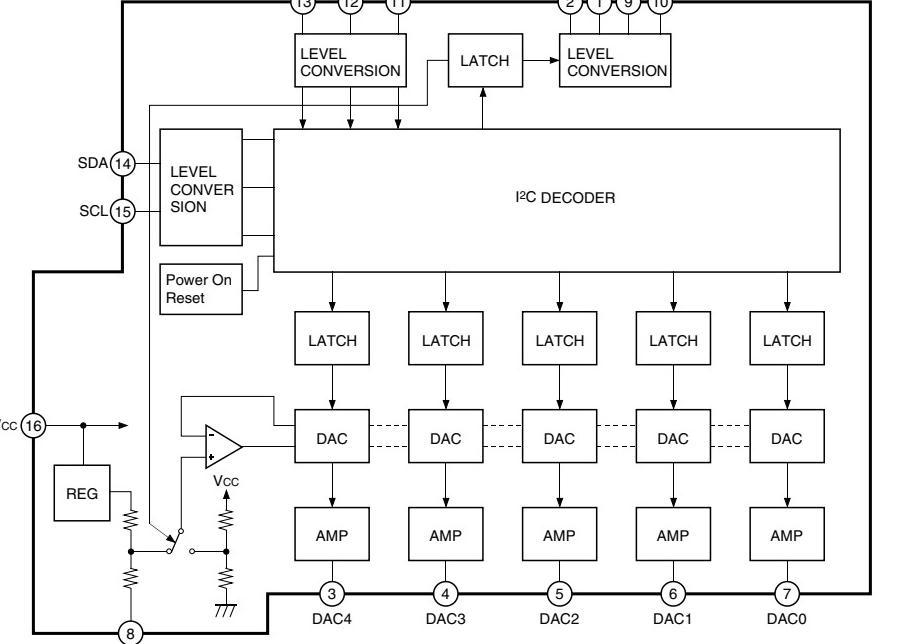




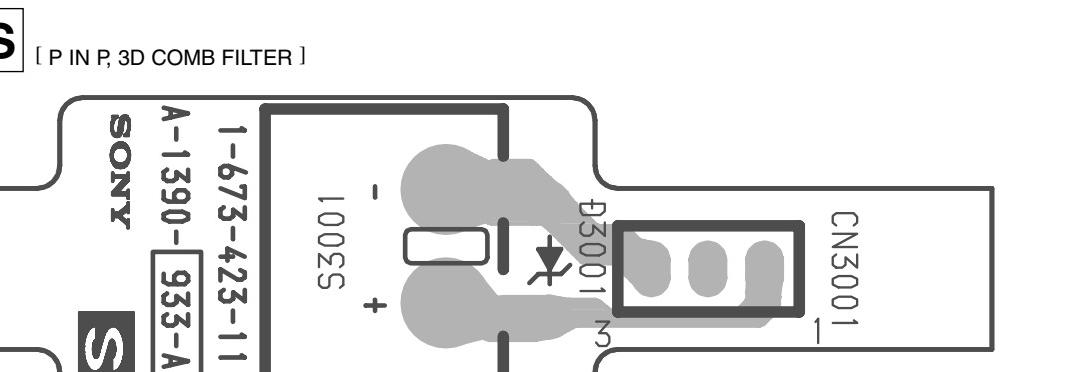
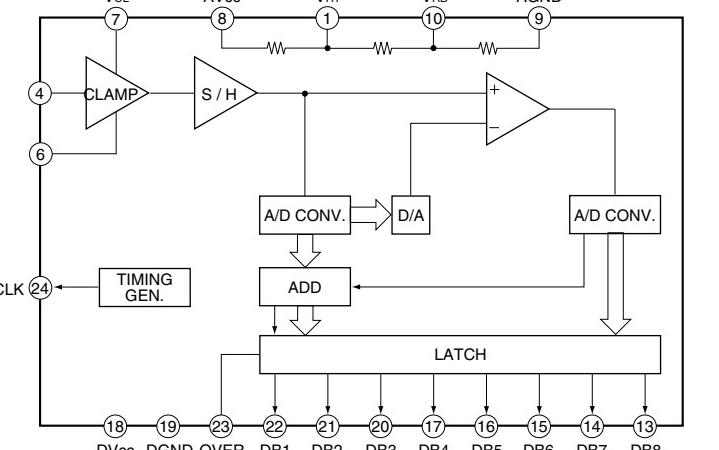
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A (3/3) BOARD : IC1409 CXA1315M-T4



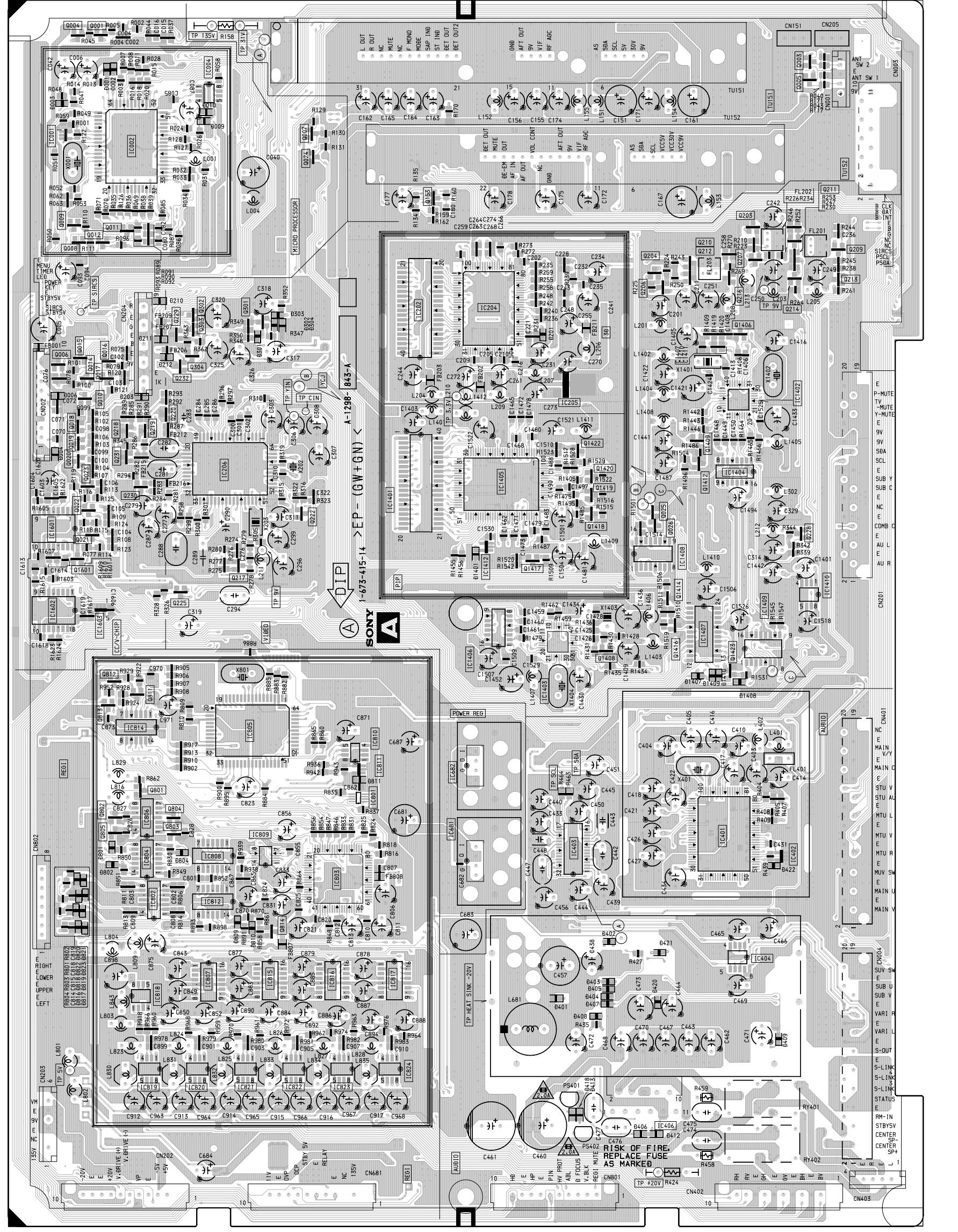
A (3/3) BOARD : IC203 μPC659AGS-E2



A (1/3) [TUNER, Y/C, SYSTEM CONTROL, AUDIO] **A (2/3)** [PJED, REGI-CORRECTION] **A (3/3)** [P IN P, 3D COMB FILTER]

- A Board -

1 2 3 4 5 6 7 8 9 10



< Component Side >

A BOARD

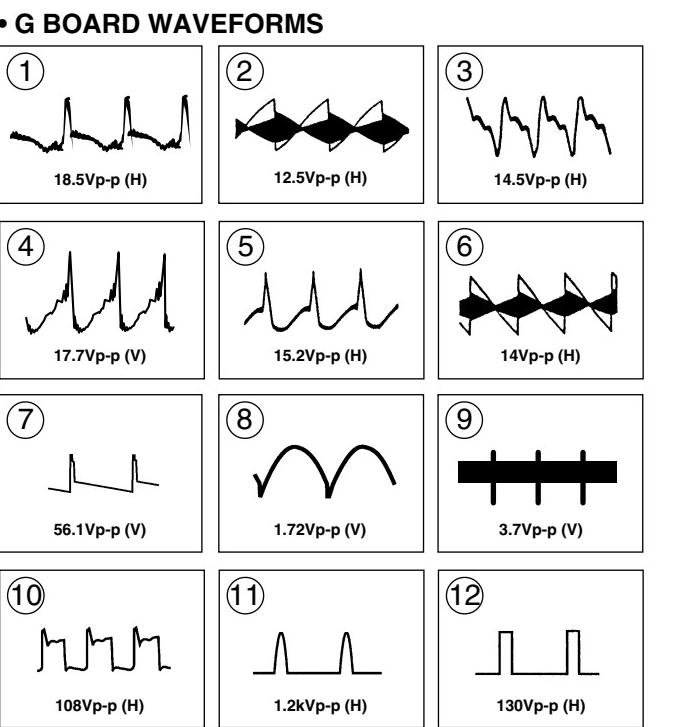
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D001	A-2	③	D305	F-8	③	D402	K-8	③	D824	H-8	③	Q013	E-2	②	Q206	D-8	③	Q226	F-2	③	Q410	K-4	②	Q1408	H-7	②	IC803	J-4	I-5			
D002	A-2	*	D304	D-4	*	D403	K-7	③	D802	J-2	③	D1408	H-9	③	Q014	E-2	②	Q207	D-8	③	Q227	F-2	③	Q411	K-4	②	Q1409	E-8	②	IC804	J-2	I-3
D003	B-1	③	D303	D-4	*	D404	K-7	③	D803	J-3	③	D1409	H-8	③	Q015	E-1	②	Q208	C-2	③	Q228	F-9	③	Q412	K-3	②	Q1410	E-9	②	IC805	H-3	I-2
D004	F-1	③	D304	D-4	*	D405	K-7	③	D804	J-3	③	D1410	H-8	③	Q016	E-2	②	Q209	C-10	③	Q229	D-2	③	Q411	G-5	②	Q1402	B-2	I-3			
D005	B-10	③	D305	D-4	*	D406	M-7	③	D805	H-8	③	D1408	H-9	③	Q017	E-2	②	Q210	D-8	③	Q230	F-2	③	Q412	F-8	②	Q1404	B-3	I-4			
D006	E-1	③	D306	D-4	*	D407	K-7	③	D807	H-8	③	D1409	H-8	③	Q018	E-1	②	Q211	C-9	③	Q231	F-2	③	Q413	H-5	②	Q1405	D-5	I-6			
D007	B10	③	D307	D-4	*	D408	K-7	③	D808	H-8	③	D1410	H-8	③	Q019	E-1	②	Q212	D-8	③	Q232	E-3	③	Q414	G-8	②	Q1403	C-3	I-4			
D151	A-3	③	D315	D-4	*	D409	L-7	③	D809	K-3	③	D1408	H-9	③	Q020	F-1	②	Q213	D-10	③	Q233	D-3	③	Q415	G-5	②	Q1406	E-7	I-8			
D201	D-6	③	D321	D-4	*	D410	L-9	③	D810	K-3	③	D1409	H-8	③	Q021	F-1	②	Q214	D-9	③	Q234	E-3	③	Q416	G-8	②	Q1405	E-7	I-8			
D202	G-8	③	D322	D-4	*	D411	M-3	③	D816	K-1	③	D1408	H-9	③	Q022	F-2	③	Q215	D-8	③	Q235	E-3	③	Q417	H-6	②	Q1406	F-5	I-6			
D204	E-2	③	D324	D-4	*	D412	M-8	③	D817	K-1	③	D1409	H-8	③	Q023	F-2	③	Q216	D-8	③	Q236	E-3	③	Q418	K-4	②	Q1402	F-7	I-8			
D205	E-2	③	D325	D-4	*	D413	M-7	③	D818	J-1	③	D1408	H-9	③	Q024	F-2	③	Q217	E-2	③	Q237	F-3	③	Q403	J-7	②	Q1403	J-7	I-8			
D206	D-9	③	D326	D-4	*	D414	M-3	③	D819	J-1	③	D1408	H-9	③	Q025	F-4	③	Q218	E-2	③	Q238	F-3	③	Q404	L-4	②	Q1406	M-7	I-8			
D207	D-9	③	D327	D-4	*	D415	M-3	③	D820	J-1	③	D1408	H-9	③	Q026	C-2	③	Q219	E-2	③	Q239	F-3	③	Q405	J-6	②	Q1405	H-3	I-4			
D208	G-9	③	D328	D-4	*	D416	L-3	③	D821	J-1	③	D1408	H-9	③	Q027	C-2	③	Q220	E-2	③	Q240	F-3	③	Q406	L-3	②	Q1405	H-3	I-4			
D209	G-9	③	D329	D-4	*	D417	M-3	③	D822	J-1	③	D1408	H-9	③	Q028	C-2	③	Q221	F-4	③	Q241	E-2	③	Q407	L-3	②	Q1405	H-3	I-4			
D301	D-3	③	D330	D-4	*	D418	L-3	③	D823	J-1	③	D1408	H-9	③	Q029	F-4	③	Q222	E-2	③	Q242	F-3	③	Q408	L-3	②	Q1406	L-4	I-5			

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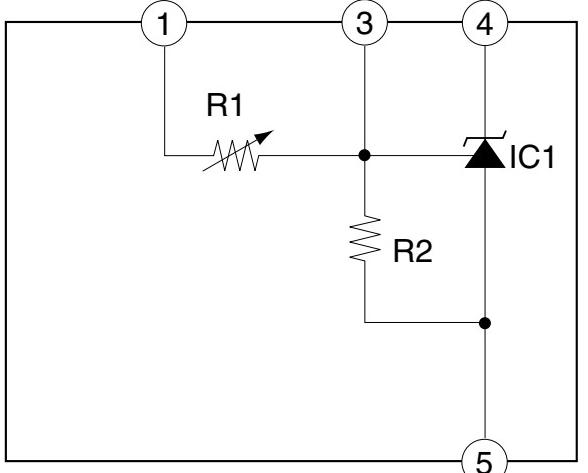
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A

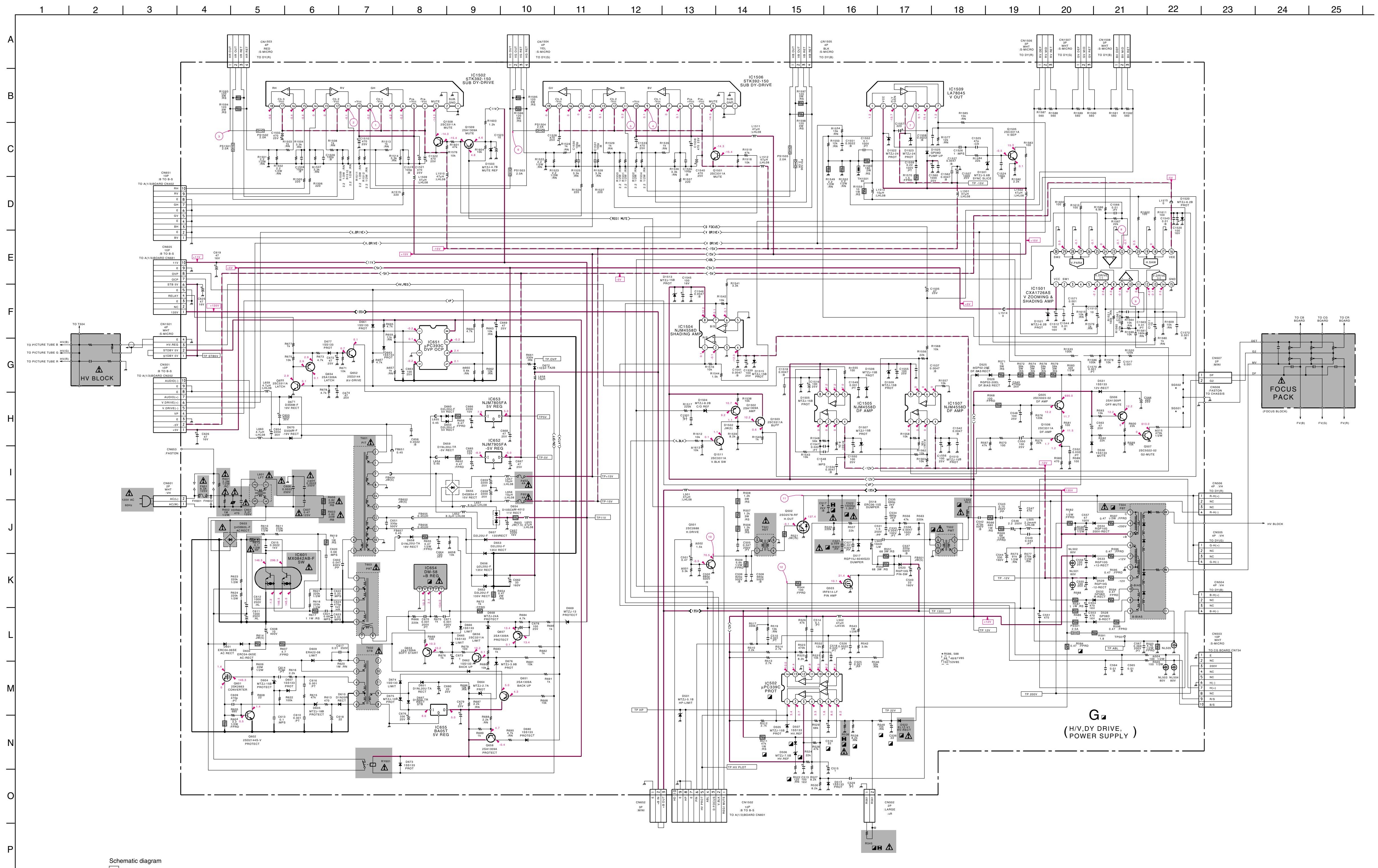
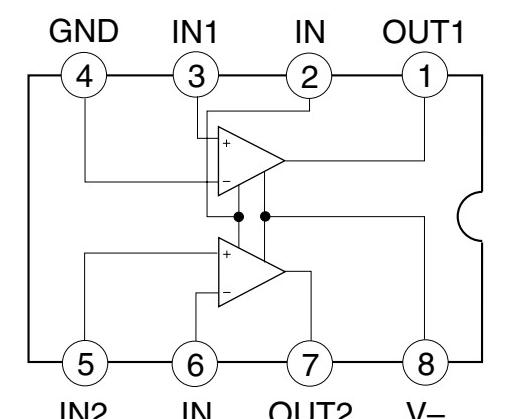
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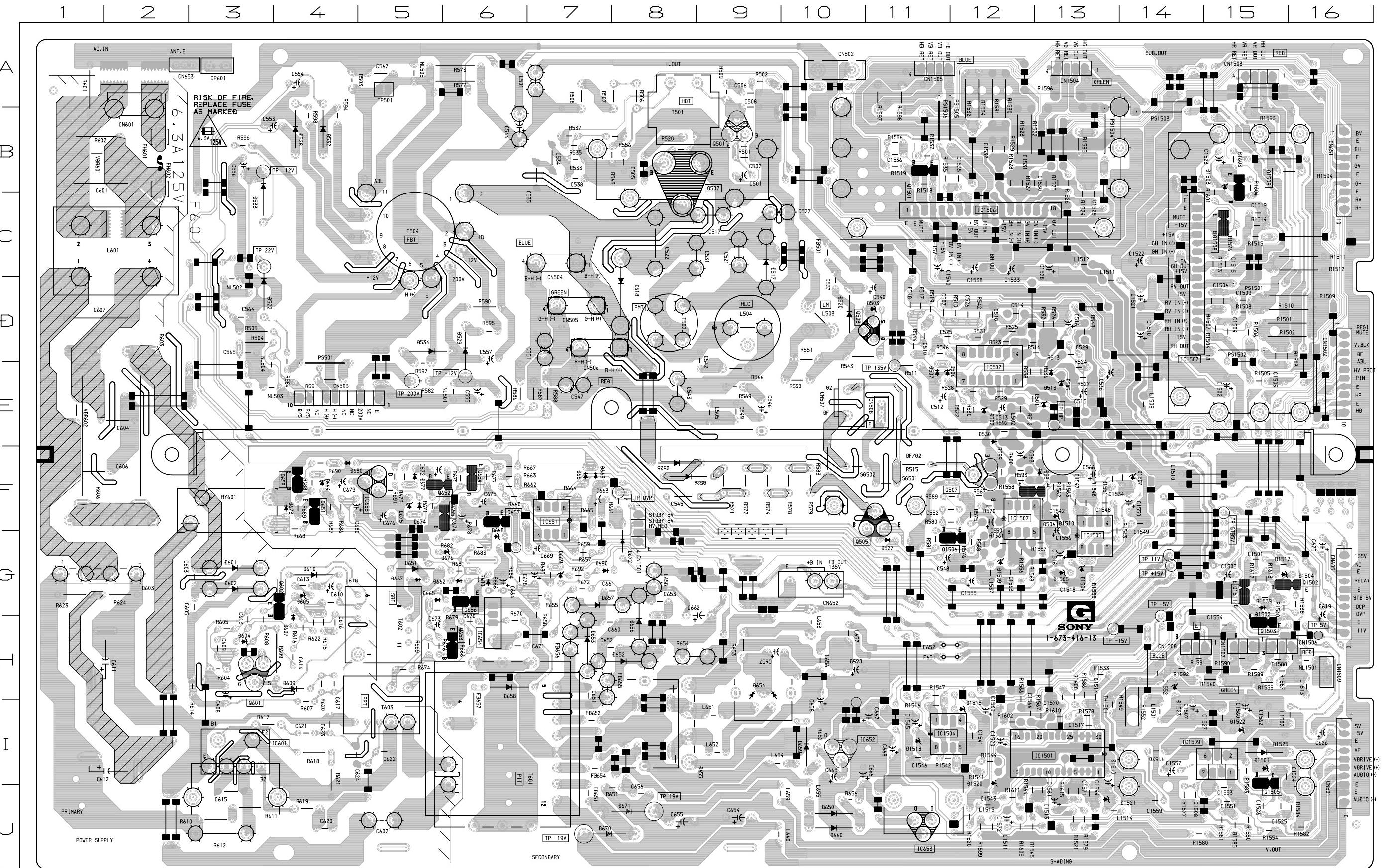
G BOARD : IC654 DM-58



G BOARD : IC651 μPC393C

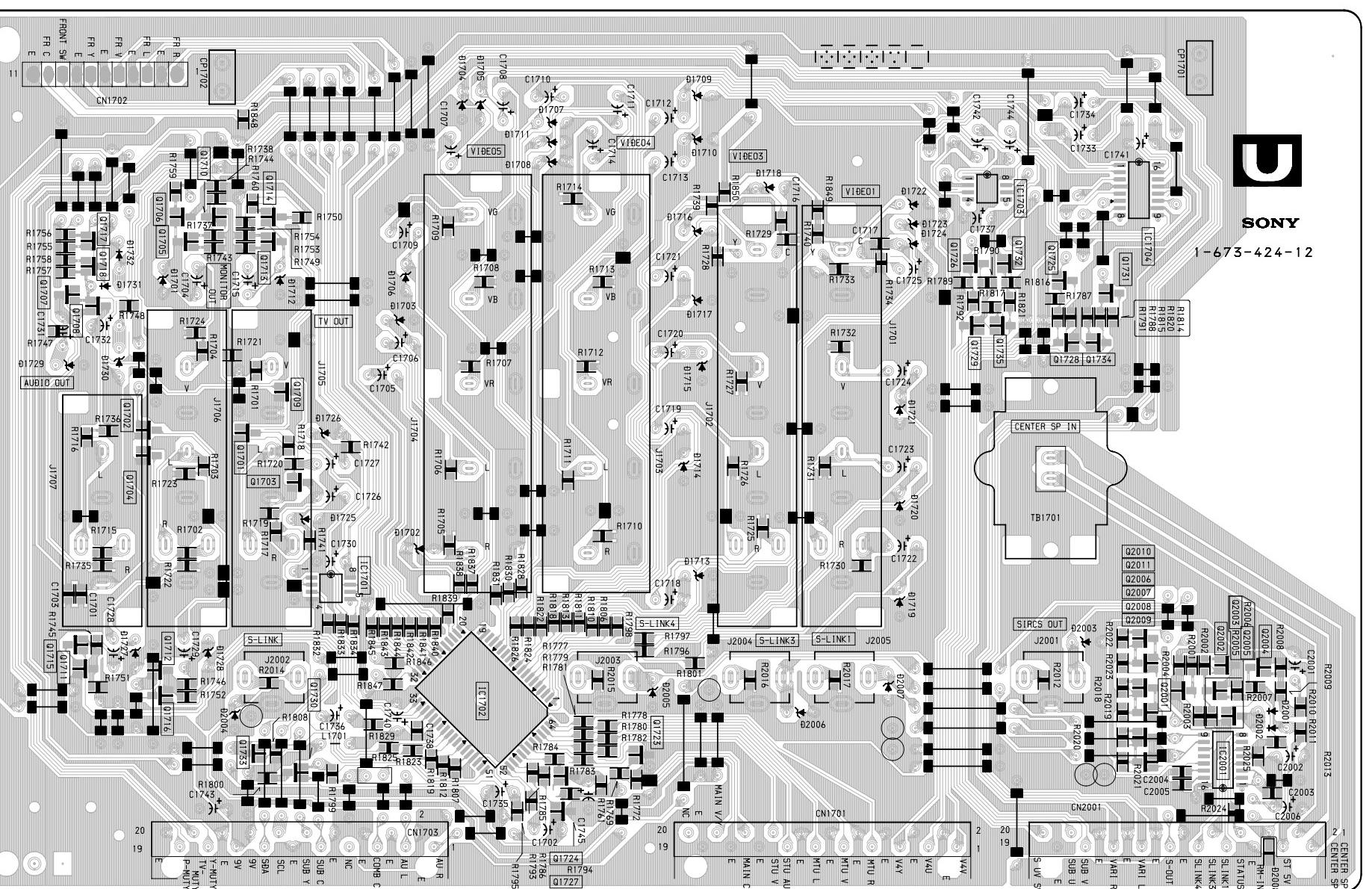


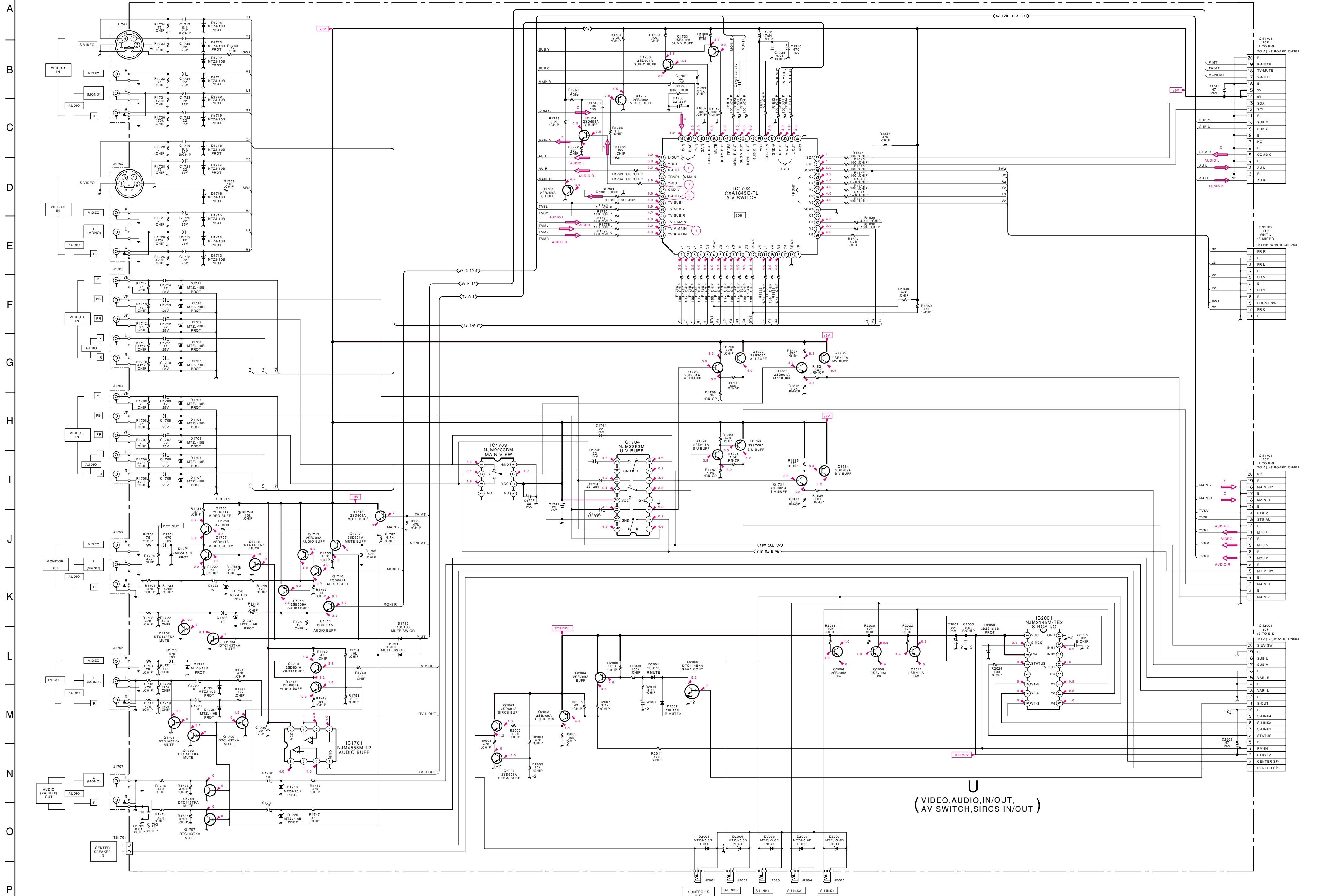
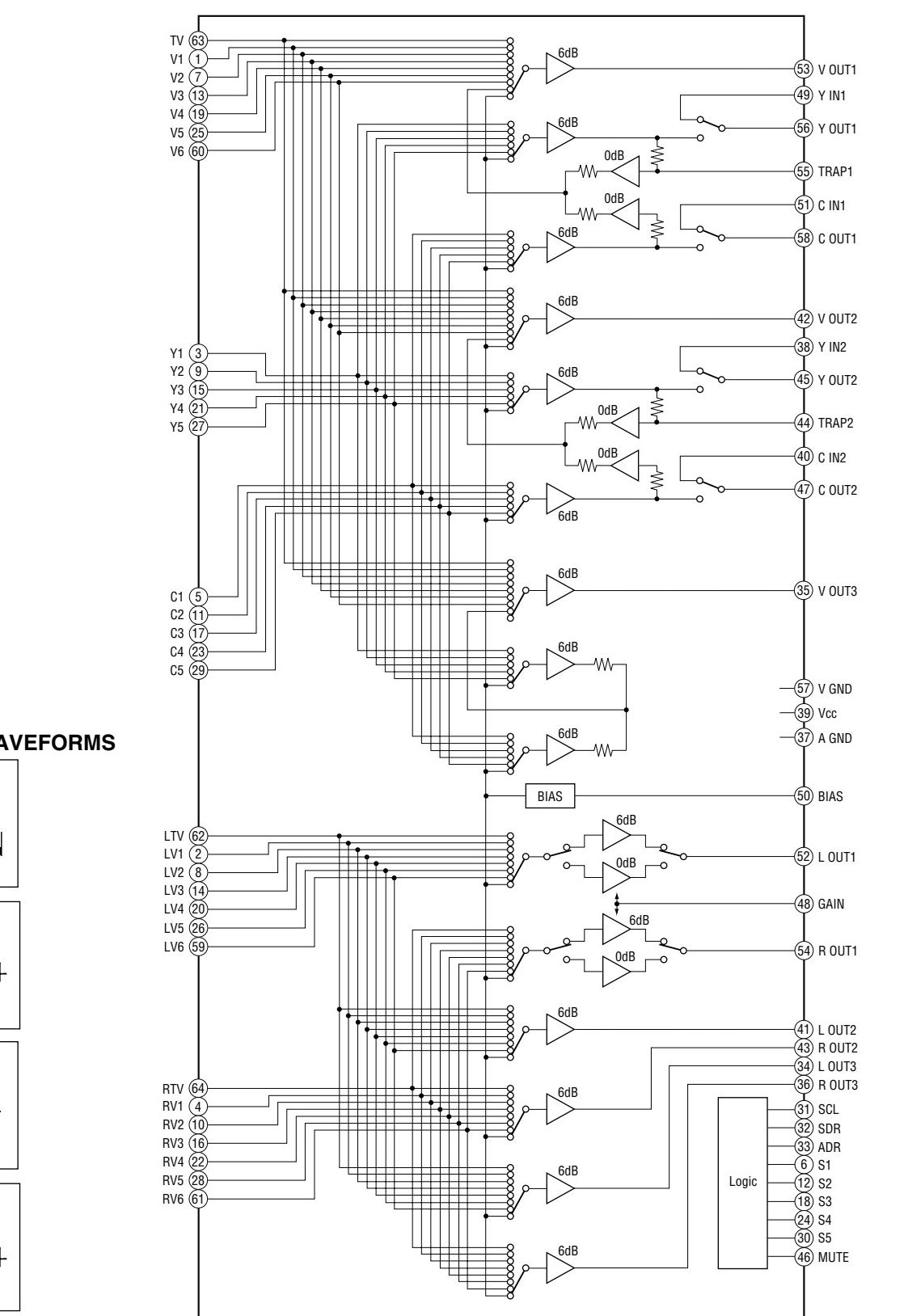
- G Board -

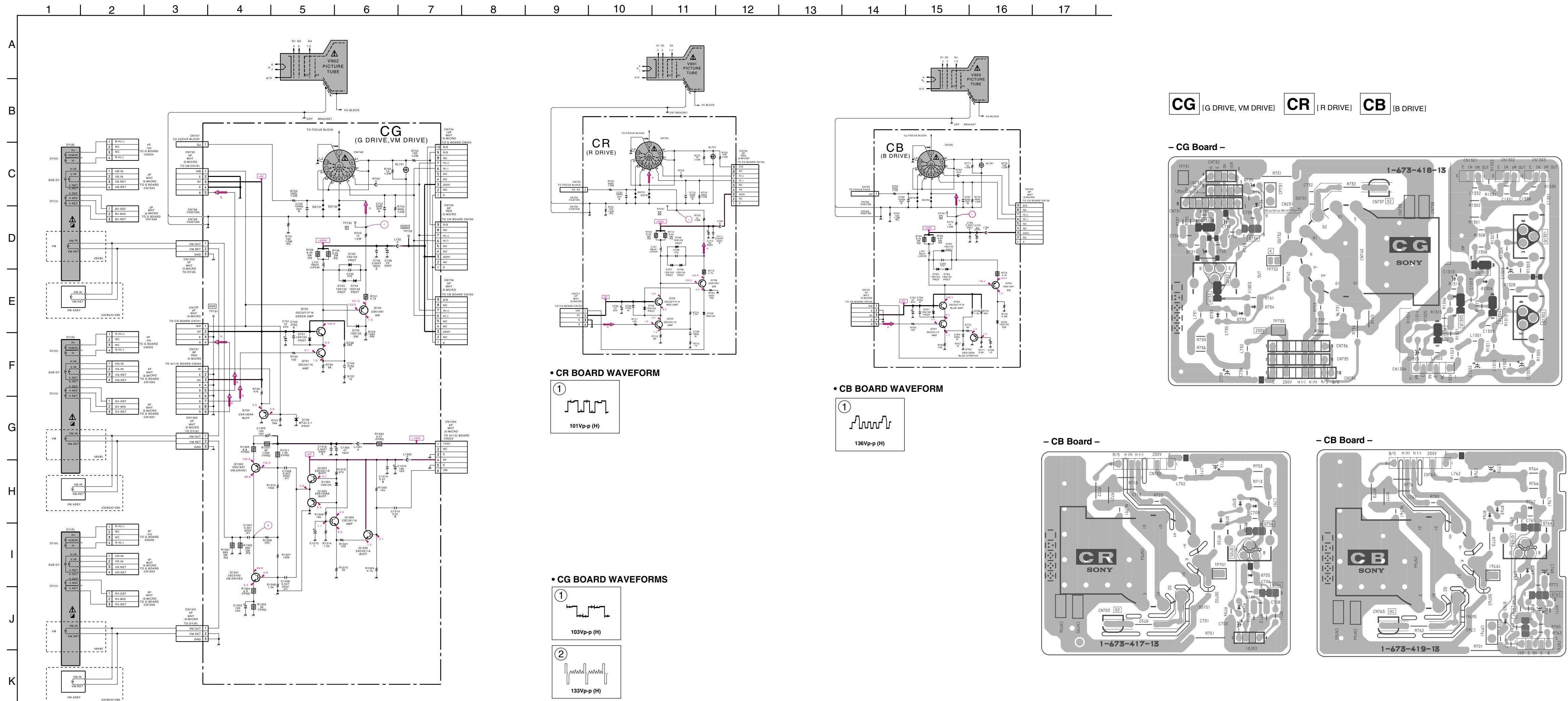


G BOARD			
DIODE		D1501	I-15
D501	E-13	D1503	B-15
D505	E-13	D1504	G-15
D506	E-11	D1505	G-13
D507	E-11	D1506	G-13
D513	E-13	D1507	F-14
D517	C-9	D1509	G-12
D518	D-8	D1510	F-13
D520	D-10	D1513	I-11
D522	D-3	D1515	I-12
D525	F-8	D1520	J-12
D526	F-8	D1521	J-13
D528	B-4	D1522	I-15
D529	D-6	D1523	H-14
D530	E-12	D1525	I-15
D531	F-13	TRANSISTOR	
D532	B-4	Q501	B-9
D533	B-6	Q502	B-8
D534	D-5	Q503	D-11
D601	G-3	Q505	F-11
D602	G-3	Q506	F-12
D603	G-2	Q507	F-12
D604	H-3	Q601	H-3
D605	G-4	Q602	G-4
D607	H-4	Q651	F-4
D609	H-4	Q652	F-5
D610	G-4	Q653	H-6
D650	J-10	Q654	F-6
D651	G-5	Q655	F-5
D652	H-8	Q656	G-6
D653	H-7	Q657	F-6
D654	H-9	Q658	F-4
D655	I-8	Q1501	B-11
D656	H-8	Q1502	G-15
D657	G-7	Q1503	H-15
D658	H-6	Q1505	I-15
D659	I-10	Q1506	G-11
D660	J-10	Q1508	C-15
D661	F-7	Q1509	B-15
D662	G-6	Q1511	G-15
D663	F-7	IC	
D664	F-4		
D665	G-5	IC502	E-12
D666	G-6	IC601	I-3
D667	G-5	IC651	F-7
D668	G-6	IC652	I-10
D669	G-7	IC653	J-11
D670	J-7	IC654	H-6
D671	J-8	IC655	F-5
D672	G-8	IC1501	I-13
D673	F-4	IC1502	D-14
D674	F-5	IC1504	I-11
D675	F-5	IC1505	G-13
D676	G-6	IC1506	C-12
D677	F-5	IC1507	F-12
D680	F-4	IC1509	I-15

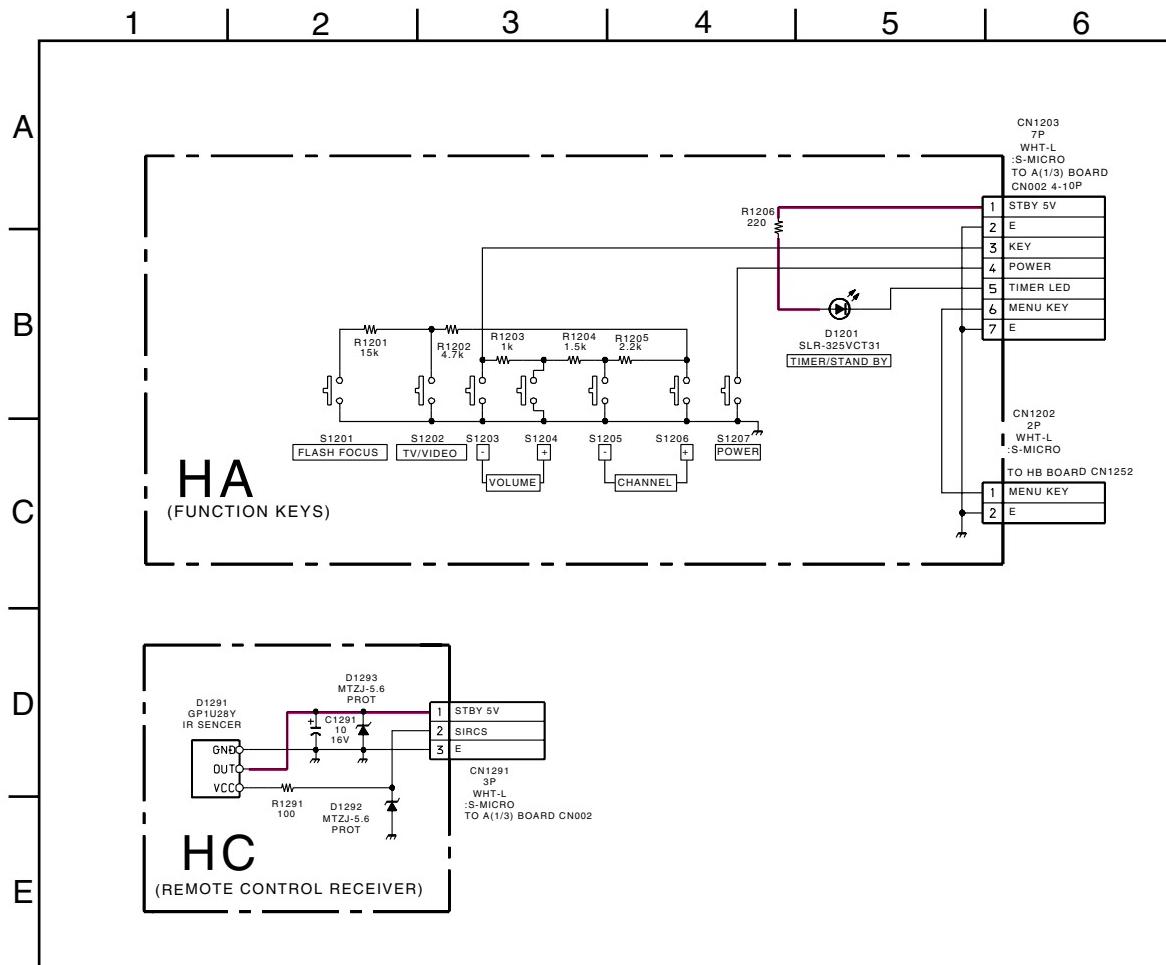
- U Board -



**U BOARD : IC1702 CXA1845Q**



Schematic diagram
← U board



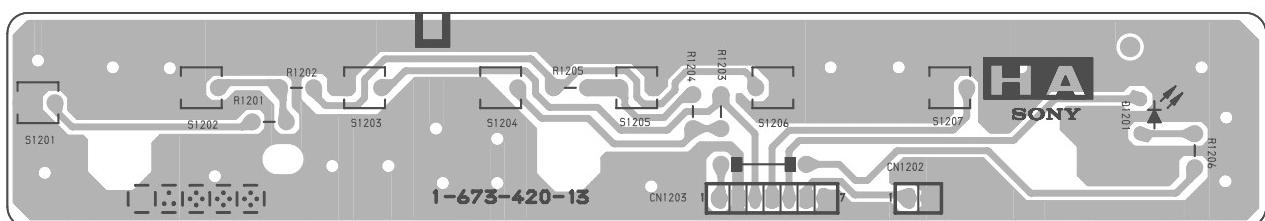
HA

[FUNCTION KEYS]

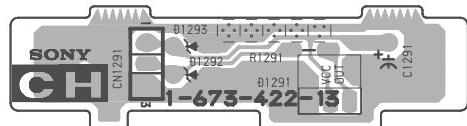
HC

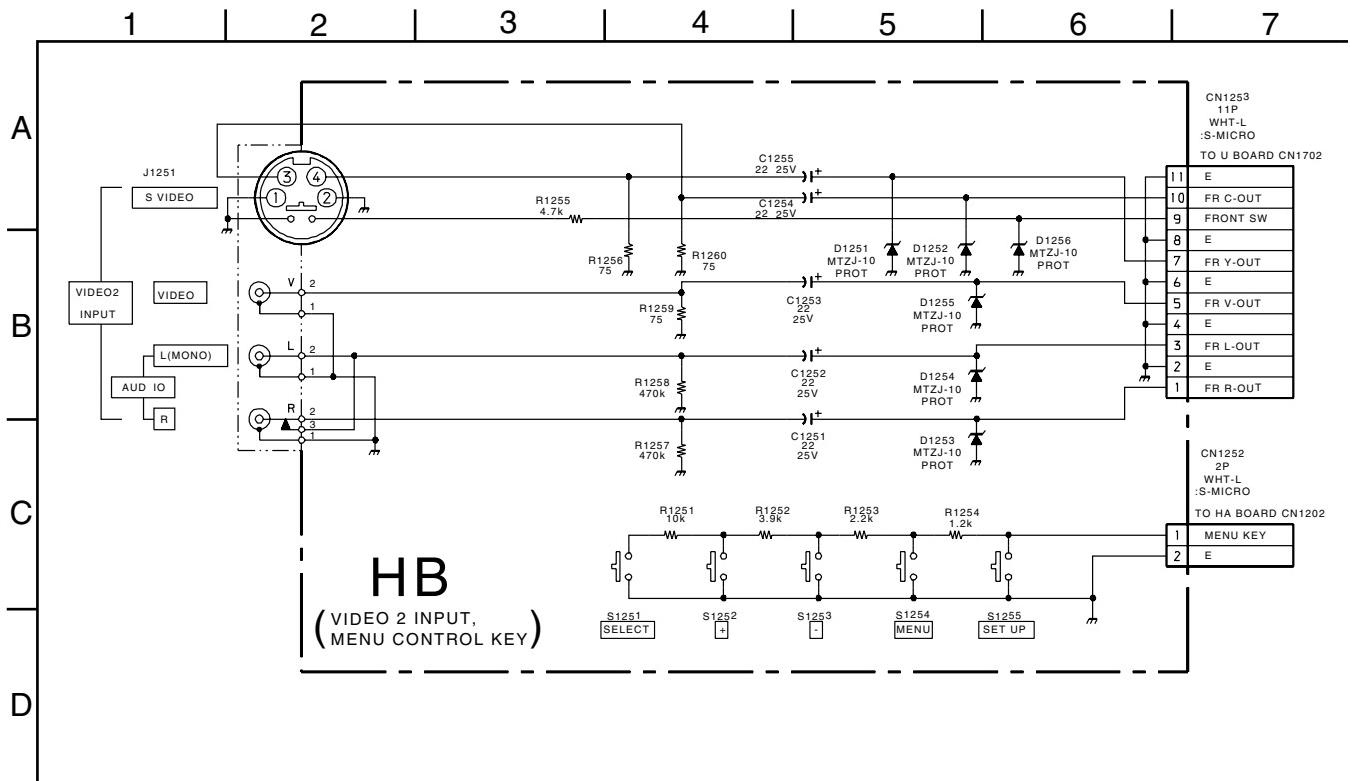
[REMOTE CONTROL]
RECEIVER

- HA Board -



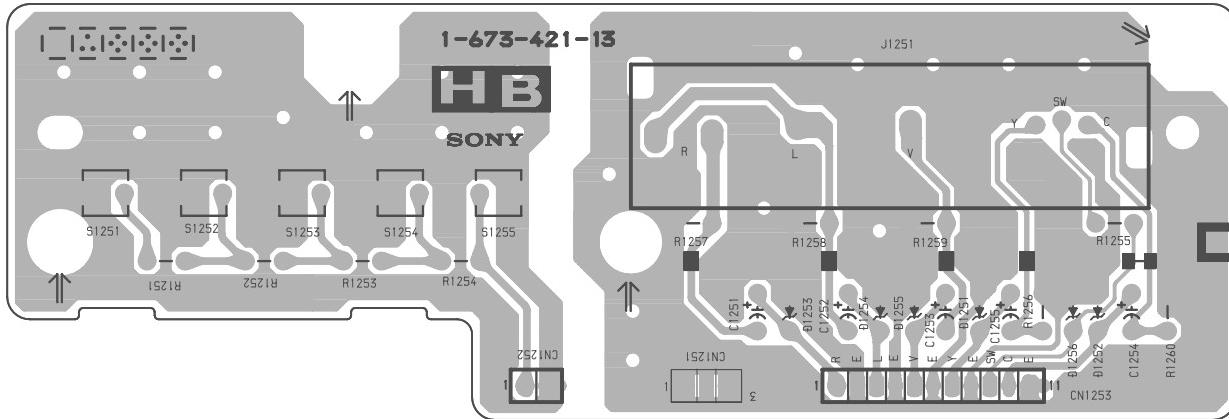
- HC Board -



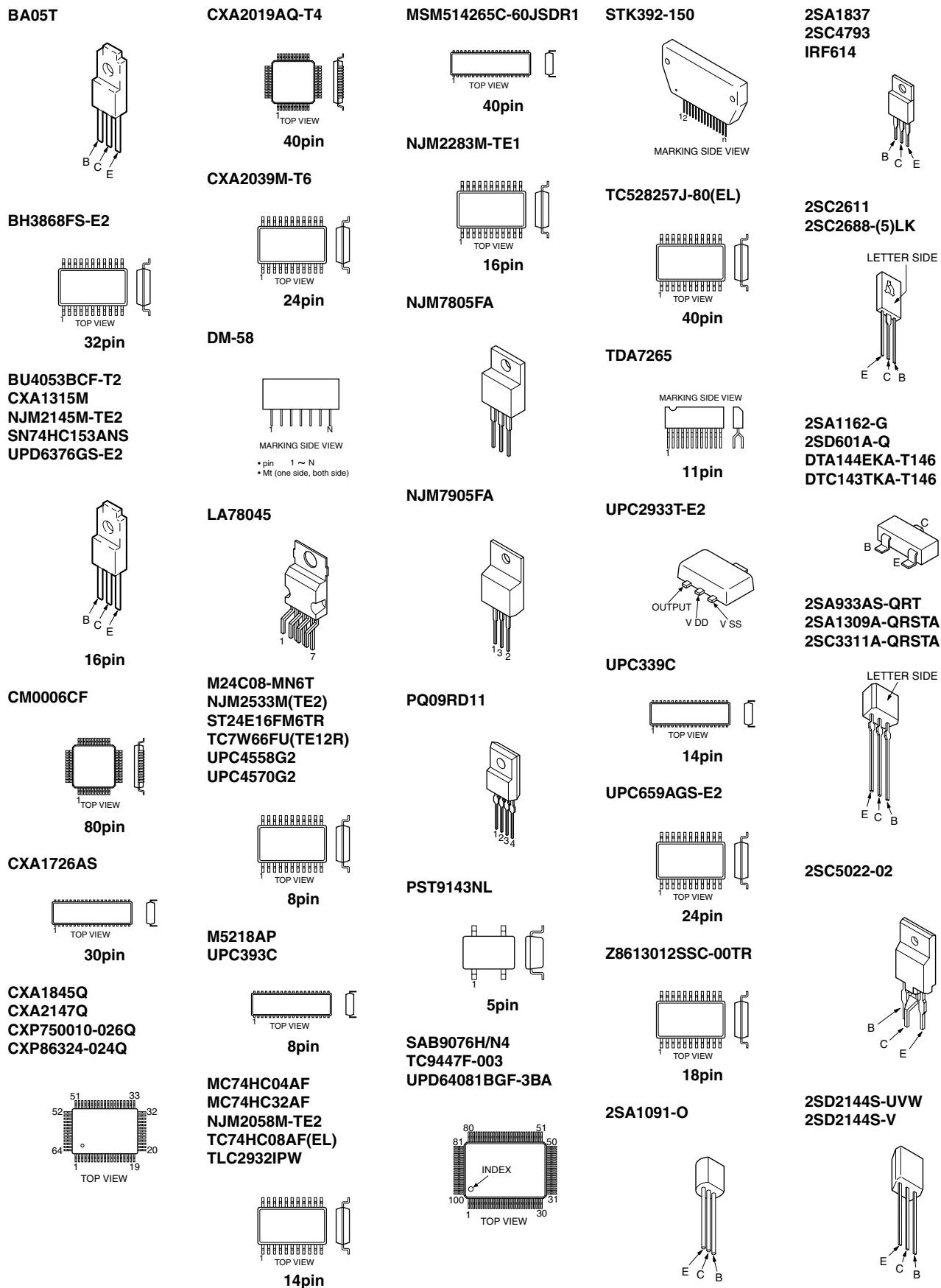


HB [VIDEO-2 INPUT, MENU]
CONTROL KEYS

- HB Board -



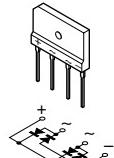
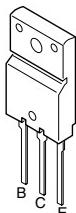
6-5. SEMICONDUCTORS



KP-48V85/53V85/61V85
 RM-Y905 RM-Y905 RM-Y905

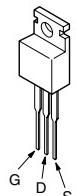
2SD2578-RF

D4SBS4-F

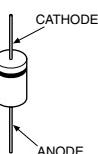


D1NL20U

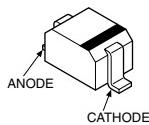
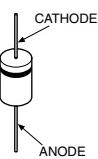
2SK2663



**D1NS6
EGP20G
EL1Z
GP08D
RGP02-20EL-6394**

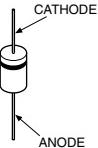


**1SS355TE-17
DTZ10B
DTZ33B
DTZ4.7C
UDZ-TE-17-22B
UDZS-TE17-5.6B**

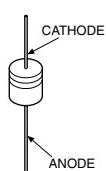
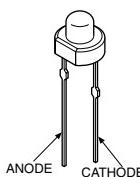


**D3S6M-F
ERA22-08
ERC04-06SE
ERC06-15S**

**D1N20R
D2L20U
MTZJ-10B
MTZJ-13
MTZJ-2.7A
MTZJ-4.7C
MTZJ-7.5B
MTZJ-T-77-24
MTZJ-T-77-5.6B
RD10ES-B2
RD15ES-B2
RD18ESB2
RD24ES-B1
RD3.9ES-B2
RD5.1ES-B1
RD5.1ESB2
RD5.6ES-B2
RD6.2ESB2
RD8.2ES-B2**



SLR-325VCT31



SECTION 7
EXPLODED VIEWS

NOTE:

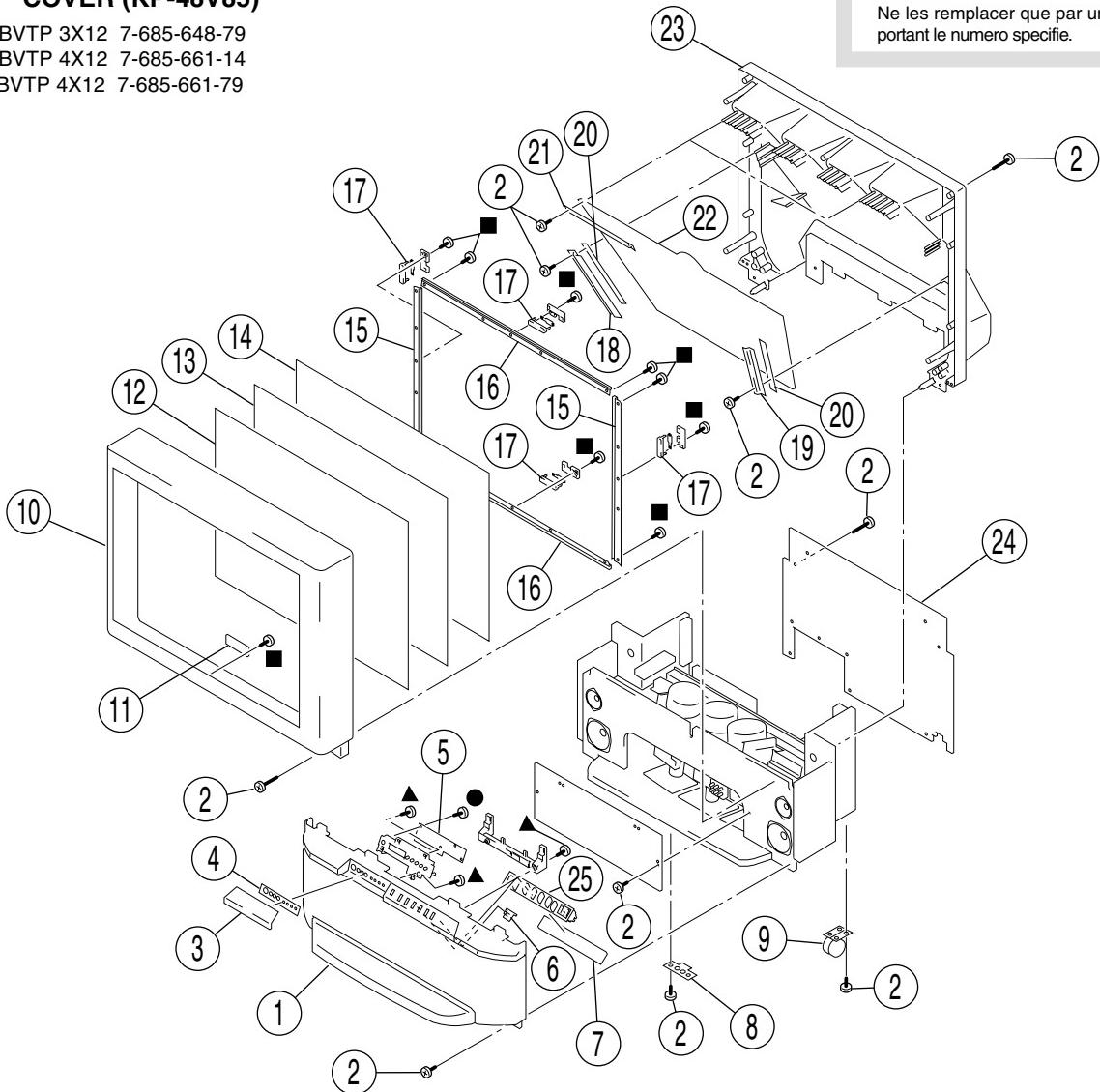
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.

- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark \triangle are critical for safety. Replace only with part number specified.

7-1. COVER (KP-48V85)

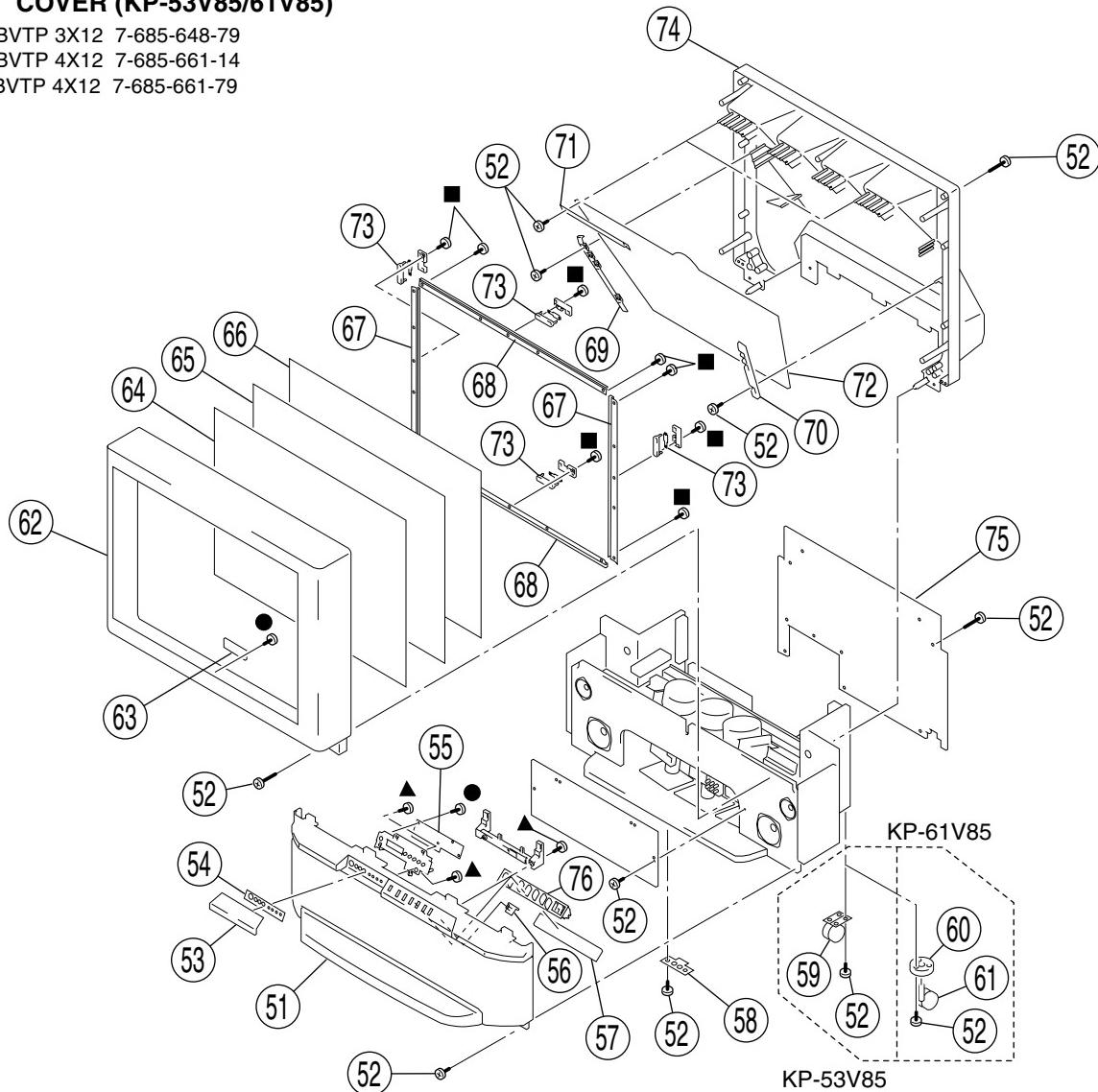
- : +BVTP 3X12 7-685-648-79
- : +BVTP 4X12 7-685-661-14
- ▲ : +BVTP 4X12 7-685-661-79



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
1	X-4037-985-1	GRILLE ASSY, SPEAKER (48V)		3	14	4-058-455-11	PLATE (F), DIFFUSION
2	4-378-522-31	SCREW (4X20), TAPPING		15	* 4-070-336-12	HOLDER, SCREEN (YC)	
3	4-069-671-11	DOOR (V), CONTROL		16	* 4-070-336-42	HOLDER, SCREEN (YC)	
4	4-072-529-01	LABEL(2), SPEAKER GRILLE		17	* A-1390-933-A	S BOARD, COMPLETE	
5	* A-1372-620-A	HB BOARD, COMPLETE		18	* 4-051-790-02	HOLDER, MIRSD (L)	
6	4-069-682-01	GUIDE, LED		19	* 4-051-789-02	HOLDER, MIRSD (R)	
7	* A-1372-619-A	HA BOARD, COMPLETE		20	* 4-049-098-01	CUSHION	
8	4-048-175-01	FOOT, PLASTIC		21	* 4-070-345-21	HOLDER (TOP), MIRROR	
9	4-040-755-01	CASTER (DIA. 30)		22	4-071-048-01	MIRROR (48), REFLECTION	
10	X-4036-838-1	BEZNET ASSY (48V)		23	* 4-057-610-01	COVER, MIRROR	
11	* A-1372-618-A	HC BOARD, COMPLETE		24	* 4-071-126-01	BOARD, REAR (48)	
12	4-064-651-11	SCREEN (48), CONTRAST		25	4-069-681-01	BUTTON, MULTI	
13	4-075-440-11	PLATE (48L), DIFFUSION					

7-2. COVER (KP-53V85/61V85)

- : +BVTP 3X12 7-685-648-79
- : +BVTP 4X12 7-685-661-14
- ▲ : +BVTP 4X12 7-685-661-79



REF. NO.	PART NO.	DESCRIPTION	REMARK
51	X-4037-977-1	GRILLE ASSY, SPEAKER (53V) (53V85)	
	X-4037-986-1	GRILLE ASSY, SPEAKER (61V) (61V85)	53
52	4-378-533-31	SCREW (4X20), TAPPING	
53	4-069-671-11	DOOR (V), CONTROL	
54	4-072-529-01	LABEL(2), SPEAKER GRILLE	
55	* A-1372-620-A	HB BOARD, COMPLETE	
56	4-069-682-01	GUIDE, LED	
57	* A-1372-619-A	HA BOARD, COMPLETE	
58	4-048-175-01	FOOT, PLASTIC	
59	4-040-755-01	CASTER (DIA. 30) (53V85)	
60	4-030-850-01	SOCKET, CASTER (61V85)	
61	4-039-546-01	CASTER (61V85)	
62	X-4036-807-1	BEZNET ASSY (61V) (61V85)	
	X-4036-809-1	BEZNET ASSY (53V) (53V85)	
63	* A-1372-618-A	HC BOARD, COMPLETE	
64	4-058-538-11	SCREEN (61), CONTRAST (61V85)	
	4-058-894-11	SCREEN (53), CONTRAST (53V85)	
65	4-070-283-11	PLATE (L), DIFFUSION (61V85)	
	4-070-525-01	PLATE (L), DIFFUSION (53V85)	

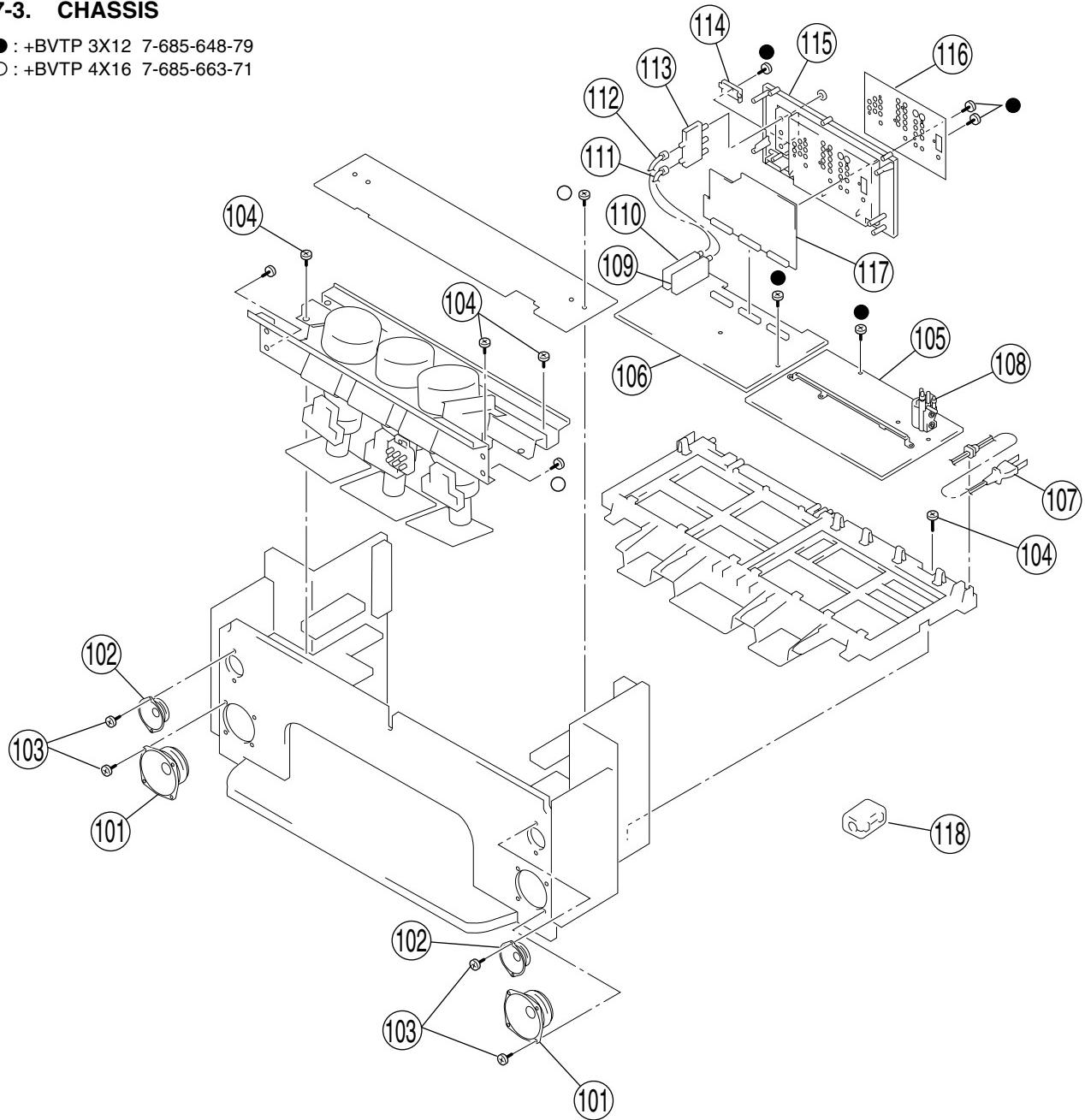
REF. NO.	PART NO.	DESCRIPTION	REMARK
66	4-066-082-11	PLATE (F), DIFFUSION (61V85)	
	4-070-602-11	PLATE (F), DIFFUSION (53V85)	
67	* 4-070-330-01	HOLDER (S), SCREEN (YC) (53V85)	
	* 4-070-334-01	HOLDER (S), SCREEN (YC) (61V85)	
68	* 4-070-328-11	HOLDER (L), SCREEN (YC) (53V85)	
	* 4-070-329-01	HOLDER (L), SCREEN (YC) (61V85)	
69	* 4-069-687-01	HOLDER (LS), MIRROR (53V85)	
	* 4-069-689-01	HOLDER (L), MIRROR (61V85)	
70	* 4-069-688-01	HOLDER (RS), MIRROR (53V85)	
	* 4-069-690-01	HOLDER (R), MIRROR (61V85)	
71	* 4-070-345-01	HOLDER (TOP), MIRROR (61V85)	
	* 4-070-345-11	HOLDER (TOP), MIRROR (53V85)	
72	4-070-344-01	MIRROR, REFLECTION (53V85)	
	4-070-922-01	MIRROR, REFLECTION (61V85)	
73	* A-1390-933-A	S BOARD, COMPLETE	
74	* 4-069-694-01	COVER, MIRROR (53V85)	
	* 4-069-695-01	COVER, MIRROR (61V85)	
75	* 4-070-342-01	BOARD (53), REAR (53V85)	
	* 4-070-920-01	BOARD, REAR (61V85)	
76	4-069-681-11	BUTTON, MULTI	

Les composants identifiés par une trame et une marque \triangle sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

The components identified by shading and mark \triangle are critical for safety. Replace only with part number specified.

7-3. CHASSIS

- : +BVTP 3X12 7-685-648-79
- : +BVTP 4X16 7-685-663-71



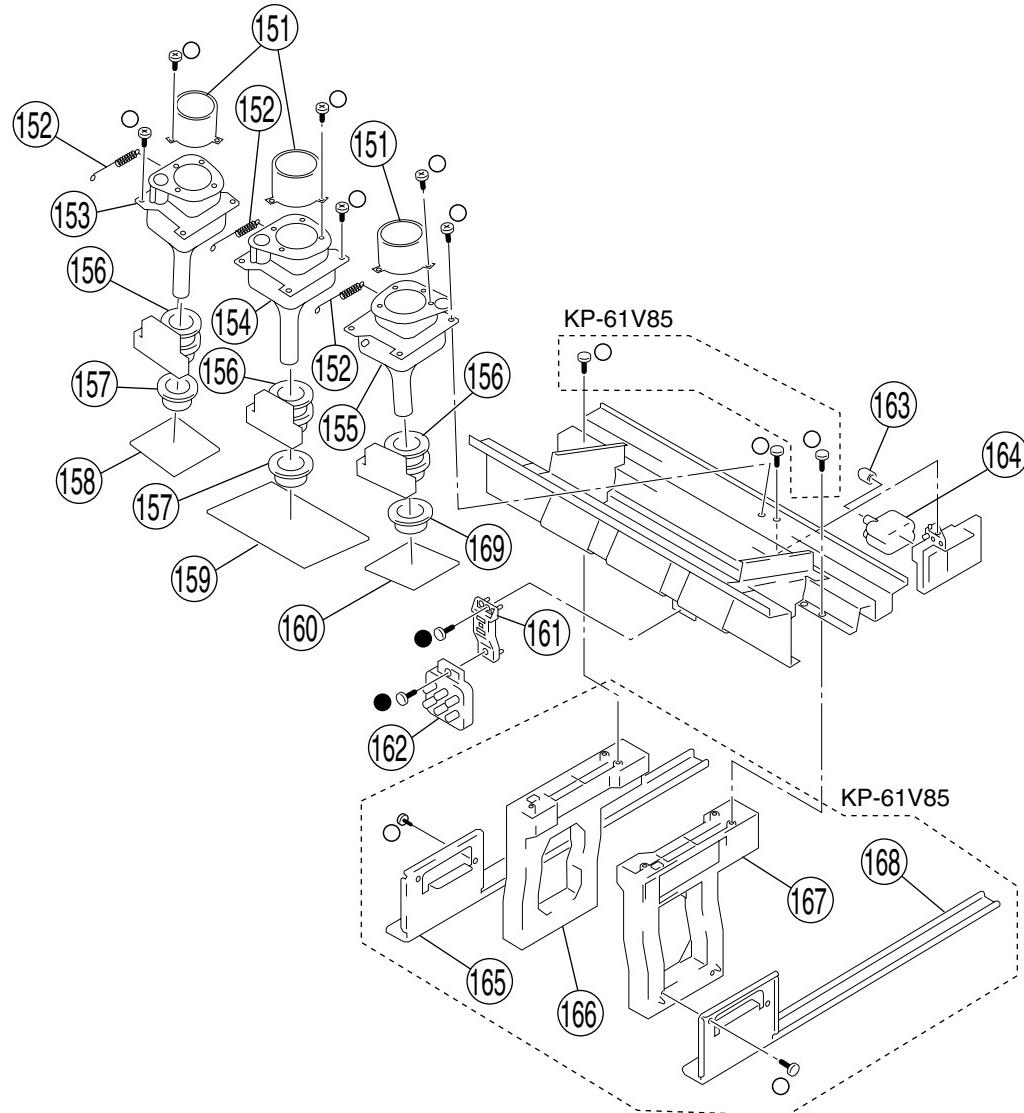
REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
101	1-529-402-11	SPEAKER (16cm)		111	* 1-557-056-31	CABLE, P-P	
102	1-529-403-21	SPEAKER (6.6cm)		112	1-556-945-21	CABLE, P-P	
103	4-378-522-31	SCREW (4X20), TAPPING		113	\triangle 8-598-414-20	CHANGER, ANTENNA AS-2F	
104	4-054-894-01	SCREW (4X20), HEAD TAPPING		114	4-069-675-01	CAP, TERMINAL BOARD	
105	* A-1316-437-A G BOARD, COMPLETE (53V85)			115	4-069-674-01	TERMINAL BOARD	
		* A-1316-471-A G BOARD, COMPLETE (48V85/61V85)		116	4-069-661-01	LABEL, TERMINAL	
106	* A-1298-843-A A BOARD, COMPLETE			117	* A-1373-727-A U BOARD, COMPLETE		
107	\triangle 1-790-130-11	CORD, AC POWER(WITH CONNECTOR)		118	1-500-021-11	CLAMP, SLEEVE FERRITE	
108	\triangle 1-453-238-31	FLAYBACK TRANS ASSY (T504)					
109	8-598-430-00	TUNER, FSS BTF-FA401 (TU152)					
110	8-598-431-00	TUNER, FSS BTF-WA411 (TU151)					

Les composants identifiés par une trame et une marque \triangle sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

The components identified by shading and mark \triangle are critical for safety. Replace only with part number specified.

7-4. PICTURE TUBE

- : +BVTP 3X12 7-685-648-79
- : +BVTP 4X16 7-685-663-71



REF. NO.	PART NO.	DESCRIPTION	REMARK
151	4-056-258-11	LENS (DELTA 78) (48V85/53V85)	
	4-040-131-21	LENS (LINNIT POINT 6) (61V85)	
152	4-057-007-01	SPRING, TENSION (53V85/61V85)	
153	\triangle 8-733-572-15	CRT 07MXC3(R)(HEATER) (48V85)	
	\triangle A-1501-278-A	COUPLER (R) ASSY, CRT (53V85)	
154	\triangle A-1501-732-A	COUPLER (R) ASSY, CRT (61V85)	
	\triangle 8-733-570-15	CRT 07MXC2(G)(HEATER) (48V85)	
	\triangle A-1501-279-A	COUPLER (G) ASSY, CRT (53V85/61V85)	
155	\triangle 8-733-575-15	CRT 07MAC3(B)(HEATER) (48V85)	
	\triangle A-1501-277-A	COUPLER (B) ASSY, CRT (53V85)	
156	\triangle A-1501-731-A	COUPLER (B) ASSY, CRT (61V85)	
	\triangle 1-451-497-21	DEFLECTION YOKE (53V85/61V85)	
	\triangle 1-451-496-11	DEFLECTION YOKE (48V85)	
157	\triangle 1-451-469-21	COIL ASSY, VM (53V85/61V85)	
	\triangle 1-452-790-21	NECK ASSY (48V85)	

REF. NO.	PART NO.	DESCRIPTION	REMARK
158	* A-1331-922-A	CR BOARD, COMPLETE	
159	* A-1331-923-ACG	BOARD, COMPLETE	
160	* A-1331-924-ACB	BOARD, COMPLETE	
161	* 4-063-403-01	BRACKET, FOCUS PACK	
162	\triangle 1-223-925-11	RESISTOR ASSY (FOCUS PACK)	
163	4-373-137-01	CAP (Z), RUBBER	
164	\triangle 8-598-955-30	BLOCK ASSY, HIGH-VOLTAGE	
165	4-070-917-01	STAY (L), CHASSIS (61V85)	
166	4-069-677-01	BOARD (L), SIDE (61V85)	
167	4-069-678-01	BOARD (R), SIDE (61V85)	
168	4-070-916-01	STAY (R), CHASSIS (61V85)	
169	\triangle 1-451-469-21	COIL ASSY, VM (53V85/61V85)	
	\triangle 1-452-909-31	MAGNET ASSY, 4 POLE (48V85)	

SECTION 8

ELECTRICAL PARTS LIST

A

NOTE:

The components identified by shading and mark  are critical for safety.
Replace only with part number specified.

Les composants identifiés par une trame et une marque  sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

When indicating parts by reference number,
please include the board name.

- The components identified by  in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

- CAPACITORS
MF : μ F, PF : $\mu\mu$ F

- COILS
MMH : m H, UH : μ H

- There are some cases the reference number on one board overlaps on the other board. Therefore, when ordering parts by the reference number, please include the board name.

RESISTORS

- All resistors are in ohms
- F : nonflammable

REF. NO.	PART NO.	DESCRIPTION	REMARK			REF. NO.	PART NO.	DESCRIPTION	REMARK		
* A-1298-843-A A BOARD, COMPLETE											
		*****				C157	1-163-021-91	CERAMIC CHIP	0.01 μ F	10%	50V
						C159	1-164-161-11	CERAMIC CHIP	0.0022 μ F	10%	50V
						C161	1-126-968-11	ELECT	100 μ F	20%	50V
						C162	1-126-960-11	ELECT	1 μ F	20%	50V
						C163	1-128-551-11	ELECT	22 μ F	20%	25V
						C164	1-128-551-11	ELECT	22 μ F	20%	25V
						C165	1-128-551-11	ELECT	22 μ F	20%	25V
						C166	1-163-021-91	CERAMIC CHIP	0.01 μ F	10%	50V
						C167	1-126-935-11	ELECT	470 μ F	20%	16V
						C168	1-163-021-91	CERAMIC CHIP	0.01 μ F	10%	50V
						C170	1-163-021-91	CERAMIC CHIP	0.01 μ F	10%	50V
						C171	1-126-933-11	ELECT	100 μ F	20%	16V
						C172	1-126-964-11	ELECT	10 μ F	20%	50V
						C173	1-163-021-91	CERAMIC CHIP	0.01 μ F	10%	50V
						C174	1-126-933-11	ELECT	100 μ F	20%	16V
						C175	1-128-551-11	ELECT	22 μ F	20%	25V
						C176	1-164-161-11	CERAMIC CHIP	0.0022 μ F	10%	50V
						C177	1-128-551-11	ELECT	22 μ F	20%	25V
						C178	1-126-960-11	ELECT	1 μ F	20%	50V
						C179	1-163-021-91	CERAMIC CHIP	0.01 μ F	10%	50V
						C180	1-163-021-91	CERAMIC CHIP	0.01 μ F	10%	50V
						C201	1-104-664-11	ELECT	47 μ F	20%	25V
						C202	1-163-249-11	CERAMIC CHIP	82pF	5%	50V
						C203	1-163-038-91	CERAMIC CHIP	0.1 μ F		25V
						C204	1-163-251-11	CERAMIC CHIP	100pF	5%	50V
						C205	1-163-038-91	CERAMIC CHIP	0.1 μ F		25V
						C209	1-163-038-91	CERAMIC CHIP	0.1 μ F		25V
						C211	1-128-551-11	ELECT	22 μ F	20%	25V
						C213	1-163-231-11	CERAMIC CHIP	15pF	5%	50V
						C214	1-163-231-11	CERAMIC CHIP	15pF	5%	50V
						C216	1-163-021-91	CERAMIC CHIP	0.01 μ F	10%	50V
						C218	1-163-038-91	CERAMIC CHIP	0.1 μ F		25V
						C220	1-163-133-00	CERAMIC CHIP	470pF	5%	50V
						C221	1-104-760-11	CERAMIC CHIP	0.047 μ F	10%	50V
						C222	1-109-982-11	CERAMIC CHIP	1 μ F	10%	10V
						C224	1-163-113-00	CERAMIC CHIP	68pF	5%	50V
						C227	1-163-038-91	CERAMIC CHIP	0.1 μ F		25V
						C228	1-163-038-91	CERAMIC CHIP	0.1 μ F		25V
						C231	1-126-933-11	ELECT	100 μ F	20%	16V
						C232	1-163-038-91	CERAMIC CHIP	0.1 μ F		25V
						C233	1-163-038-91	CERAMIC CHIP	0.1 μ F		25V
						C234	1-126-964-11	ELECT	10 μ F	20%	50V
						C235	1-163-038-91	CERAMIC CHIP	0.1 μ F		25V
C002	1-163-259-91	CERAMIC CHIP	220pF	5%	50V						
C003	1-163-038-91	CERAMIC CHIP	0.1 μ F		25V						
C004	1-163-809-11	CERAMIC CHIP	0.047 μ F	10%	25V						
C005	1-126-935-11	ELECT	470 μ F	20%	6.3V						
C006	1-126-960-11	ELECT	1 μ F	20%	50V						
C011	1-104-664-11	ELECT	47 μ F	20%	25V						
C015	1-163-259-91	CERAMIC CHIP	220pF	5%	50V						
C016	1-163-809-11	CERAMIC CHIP	0.047 μ F	10%	25V						
C039	1-163-021-91	CERAMIC CHIP	0.01 μ F	10%	50V						
C040	1-126-916-11	ELECT	1000 μ F	20%	6.3V						
C041	1-163-229-11	CERAMIC CHIP	12pF	5%	50V						
C042	1-126-960-11	ELECT	1 μ F	20%	50V						
C044	1-163-231-11	CERAMIC CHIP	15pF	5%	50V						
C072	1-163-021-91	CERAMIC CHIP	0.01 μ F	10%	50V						
C080	1-163-227-11	CERAMIC CHIP	10pF	0.5pF	50V						
C081	1-163-227-11	CERAMIC CHIP	10pF	0.5pF	50V						
C082	1-163-227-11	CERAMIC CHIP	10pF	0.5pF	50V						
C085	1-163-021-91	CERAMIC CHIP	0.01 μ F	10%	50V						
C086	1-163-229-11	CERAMIC CHIP	12pF	5%	50V						
C087	1-126-964-11	ELECT	10 μ F	20%	50V						
C091	1-163-227-11	CERAMIC CHIP	10pF	0.5pF	50V						
C093	1-126-933-11	ELECT	100 μ F	20%	16V						
C094	1-164-004-11	CERAMIC CHIP	0.1 μ F	10%	25V						
C098	1-163-227-11	CERAMIC CHIP	10pF	0.5pF	50V						
C099	1-163-227-11	CERAMIC CHIP	10pF	0.5pF	50V						
C100	1-163-227-11	CERAMIC CHIP	10pF	0.5pF	50V						
C102	1-163-239-11	CERAMIC CHIP	33pF	5%	50V						
C103	1-163-239-11	CERAMIC CHIP	33pF	5%	50V						
C104	1-163-227-11	CERAMIC CHIP	10pF	0.5pF	50V						
C105	1-163-227-11	CERAMIC CHIP	10pF	0.5pF	50V						
C106	1-163-227-11	CERAMIC CHIP	10pF	0.5pF	50V						
C151	1-126-935-11	ELECT	470 μ F	20%	16V						
C152	1-163-021-91	CERAMIC CHIP	0.01 μ F	10%	50V						
C153	1-163-021-91	CERAMIC CHIP	0.01 μ F	10%	50V						
C154	1-163-021-91	CERAMIC CHIP	0.01 μ F	10%	50V						
C155	1-128-551-11	ELECT	22 μ F	20%	25V						
C156	1-126-933-11	ELECT	100 μ F	20%	16V						

KP-48V85/53V85/61V85

RM-Y905 RM-Y905 RM-Y905

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK		
C236	1-163-038-91	CERAMIC CHIP	0.1μF	25V	C303	1-126-933-11	ELECT	100μF 20%	16V
C237	1-163-038-91	CERAMIC CHIP	0.1μF	25V	C304	1-163-021-91	CERAMIC CHIP	0.01μF 10%	50V
C240	1-163-038-91	CERAMIC CHIP	0.1μF	25V	C305	1-163-017-00	CERAMIC CHIP	0.0047μF 10%	50V
C241	1-126-964-11	ELECT	10μF	20% 50V	C306	1-126-959-11	ELECT	0.47μF 20%	50V
C242	1-128-551-11	ELECT	22μF	20% 25V	C307	1-126-959-11	ELECT	0.47μF 20%	50V
C243	1-163-038-91	CERAMIC CHIP	0.1μF	25V	C308	1-126-963-11	ELECT	4.7μF 20%	50V
C244	1-104-664-11	ELECT	47μF	20% 25V	C309	1-163-133-00	CERAMIC CHIP	470pF 5%	50V
C245	1-163-251-11	CERAMIC CHIP	100pF	5% 50V	C310	1-163-229-11	CERAMIC CHIP	12pF 5%	50V
C247	1-163-038-91	CERAMIC CHIP	0.1μF	25V	C311	1-126-960-11	ELECT	1μF 20%	50V
C248	1-163-038-91	CERAMIC CHIP	0.1μF	25V	C312	1-115-419-11	CERAMIC CHIP	3300pF 5%	25V
C249	1-104-664-11	ELECT	47μF	20% 25V	C313	1-163-259-91	CERAMIC CHIP	220pF 5%	50V
C250	1-104-664-11	ELECT	47μF	20% 25V	C314	1-128-551-11	ELECT	22μF 20%	25V
C251	1-104-664-11	ELECT	47μF	20% 25V	C315	1-163-245-11	CERAMIC CHIP	56pF 5%	50V
C252	1-164-004-11	CERAMIC CHIP	0.1μF	10% 25V	C316	1-163-275-11	CERAMIC CHIP	0.001μF 5%	50V
C253	1-163-038-91	CERAMIC CHIP	0.1μF	25V	C317	1-104-664-11	ELECT	47μF 20%	16V
C254	1-163-038-91	CERAMIC CHIP	0.1μF	25V	C318	1-126-933-11	ELECT	100μF 20%	16V
C255	1-126-933-11	ELECT	100μF	20% 16V	C319	1-126-964-11	ELECT	10μF 20%	50V
C256	1-163-038-91	CERAMIC CHIP	0.1μF	25V	C320	1-126-934-11	ELECT	220μF 20%	16V
C257	1-163-038-91	CERAMIC CHIP	0.1μF	25V	C321	1-163-021-91	CERAMIC CHIP	0.01μF 10%	50V
C258	1-163-231-11	CERAMIC CHIP	15pF	5% 50V	C323	1-164-004-11	CERAMIC CHIP	0.1μF 10%	25V
C259	1-163-038-91	CERAMIC CHIP	0.1μF	25V	C325	1-126-964-11	ELECT	10μF 20%	50V
C260	1-163-038-91	CERAMIC CHIP	0.1μF	25V	C326	1-104-664-11	ELECT	47μF 20%	25V
C261	1-126-933-11	ELECT	100μF	20% 16V	C327	1-163-038-91	CERAMIC CHIP	0.1μF 25V	
C263	1-163-001-11	CERAMIC CHIP	220pF	10% 50V	C328	1-163-038-91	CERAMIC CHIP	0.1μF 25V	
C264	1-163-001-11	CERAMIC CHIP	220pF	10% 50V	C329	1-104-664-11	ELECT	47μF 20%	25V
C265	1-163-001-11	CERAMIC CHIP	220pF	10% 50V	C401	1-164-690-91	CERAMIC CHIP	0.0022μF 5%	50V
C266	1-163-001-11	CERAMIC CHIP	220pF	10% 50V	C402	1-164-690-91	CERAMIC CHIP	0.0022μF 5%	50V
C268	1-163-001-11	CERAMIC CHIP	220pF	10% 50V	C404	1-126-963-11	ELECT	4.7μF 20%	50V
C271	1-163-038-91	CERAMIC CHIP	0.1μF	25V	C405	1-126-963-11	ELECT	4.7μF 20%	50V
C272	1-126-933-11	ELECT	100μF	20% 16V	C406	1-163-091-00	CERAMIC CHIP	8pF 0.25pF	50V
C273	1-126-935-11	ELECT	470μF	20% 6.3V	C407	1-164-004-11	CERAMIC CHIP	0.1μF 10%	25V
C274	1-163-001-11	CERAMIC CHIP	220pF	10% 50V	C408	1-163-133-00	CERAMIC CHIP	470pF 5%	50V
C275	1-163-038-91	CERAMIC CHIP	0.1μF	25V	C410	1-126-933-11	ELECT	100μF 20%	16V
C276	1-163-251-11	CERAMIC CHIP	100pF	5% 50V	C411	1-164-004-11	CERAMIC CHIP	0.1μF 10%	25V
C277	1-126-959-11	ELECT	0.47μF	20% 50V	C413	1-163-227-11	CERAMIC CHIP	10pF 0.5pF	50V
C279	1-126-959-11	ELECT	0.47μF	20% 50V	C414	1-104-664-11	ELECT	47μF 20%	25V
C280	1-163-251-11	CERAMIC CHIP	100pF	5% 50V	C415	1-164-004-11	CERAMIC CHIP	0.1μF 10%	25V
C281	1-130-495-00	MYLAR	0.1μF	5% 50V	C416	1-104-664-11	ELECT	47μF 20%	25V
C282	1-130-495-00	MYLAR	0.1μF	5% 50V	C417	1-104-664-11	ELECT	47μF 20%	25V
C283	1-130-495-00	MYLAR	0.1μF	5% 50V	C418	1-126-964-11	ELECT	10μF 20%	50V
C284	1-163-021-91	CERAMIC CHIP	0.01μF	10% 50V	C419	1-164-690-91	CERAMIC CHIP	0.0022μF 5%	50V
C285	1-163-021-91	CERAMIC CHIP	0.01μF	10% 50V	C420	1-163-133-00	CERAMIC CHIP	470pF 5%	50V
C286	1-163-021-91	CERAMIC CHIP	0.01μF	10% 50V	C421	1-104-664-11	ELECT	4.7μF 20%	25V
C287	1-126-964-11	ELECT	10μF	20% 50V	C422	1-126-933-11	ELECT	100μF 20%	16V
C288	1-130-495-00	MYLAR	0.1μF	5% 50V	C423	1-164-690-91	CERAMIC CHIP	0.0022μF 5%	50V
C289	1-137-581-11	FILM	0.1μF	5% 100V	C425	1-164-004-11	CERAMIC CHIP	0.1μF 10%	25V
C290	1-126-935-11	ELECT	470μF	20% 16V	C426	1-104-664-11	ELECT	47μF 20%	25V
C291	1-163-021-91	CERAMIC CHIP	0.01μF	10% 50V	C427	1-126-964-11	ELECT	10μF 20%	50V
C293	1-164-182-11	CERAMIC CHIP	0.0033μF	10% 50V	C428	1-164-004-11	CERAMIC CHIP	0.1μF 10%	25V
C294	1-130-495-00	MYLAR	0.1μF	5% 50V	C429	1-164-004-11	CERAMIC CHIP	0.1μF 10%	25V
C296	1-126-961-11	ELECT	2.2μF	20% 50V	C430	1-164-004-11	CERAMIC CHIP	0.1μF 10%	25V
C297	1-163-251-11	CERAMIC CHIP	100pF	5% 50V	C431	1-104-760-11	CERAMIC CHIP	0.047μF 10%	50V
C298	1-163-038-91	CERAMIC CHIP	0.1μF	25V	C432	1-164-004-11	CERAMIC CHIP	0.1μF 10%	25V
C299	1-126-959-11	ELECT	0.47μF	20% 50V	C433	1-126-963-11	ELECT	4.7μF 20%	50V
C300	1-164-004-11	CERAMIC CHIP	0.1μF	10% 25V	C434	1-104-664-11	ELECT	47μF 20%	25V
C301	1-164-004-11	CERAMIC CHIP	0.1μF	10% 25V	C435	1-164-004-11	CERAMIC CHIP	0.1μF 10%	25V
C302	1-164-004-11	CERAMIC CHIP	0.1μF	10% 25V	C436	1-164-004-11	CERAMIC CHIP	0.1μF 10%	25V



REF. NO.	PART NO.	DESCRIPTION	REMARK		REF. NO.	PART NO.	DESCRIPTION	REMARK		
C438	1-104-664-11	ELECT	47μF	20%	25V	C817	1-163-038-91	CERAMIC CHIP	0.1μF	25V
C439	1-126-960-11	ELECT	1μF	20%	50V	C818	1-163-259-91	CERAMIC CHIP	220pF	5% 50V
C440	1-126-963-11	ELECT	4.7μF	20%	50V	C819	1-163-259-91	CERAMIC CHIP	220pF	5% 50V
C442	1-130-489-00	MYLAR	0.033μF	5%	50V	C820	1-163-038-91	CERAMIC CHIP	0.1μF	25V
C443	1-130-471-00	MYLAR	0.001μF	5%	50V	C821	1-104-664-11	ELECT	47μF	20% 25V
C444	1-126-963-11	ELECT	4.7μF	20%	50V	C822	1-163-038-91	CERAMIC CHIP	0.1μF	25V
C445	1-126-963-11	ELECT	4.7μF	20%	50V	C823	1-104-664-11	ELECT	47μF	20% 25V
C447	1-130-489-00	MYLAR	0.033μF	5%	50V	C824	1-164-004-11	CERAMIC CHIP	0.1μF	10% 25V
C448	1-130-471-00	MYLAR	0.001μF	5%	50V	C825	1-163-038-91	CERAMIC CHIP	0.1μF	25V
C450	1-126-963-11	ELECT	4.7μF	20%	50V	C826	1-107-823-11	CERAMIC CHIP	0.47μF	10% 16V
C451	1-126-933-11	ELECT	100μF	20%	16V	C827	1-107-823-11	CERAMIC CHIP	0.47μF	10% 16V
C456	1-126-933-11	ELECT	100μF	20%	16V	C828	1-107-823-11	CERAMIC CHIP	0.47μF	10% 16V
C457	1-126-934-11	ELECT	220μF	20%	16V	C829	1-107-823-11	CERAMIC CHIP	0.47μF	10% 16V
C458	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V	C830	1-163-038-91	CERAMIC CHIP	0.1μF	25V
C459	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V	C831	1-104-664-11	ELECT	47μF	20% 25V
C460	1-126-943-11	ELECT	2200μF	20%	25V	C832	1-163-235-11	CERAMIC CHIP	22pF	5% 50V
C461	1-126-943-11	ELECT	2200μF	20%	25V	C833	1-104-664-11	ELECT	47μF	20% 25V
C462	1-126-961-11	ELECT	2.2μF	20%	50V	C834	1-164-161-11	CERAMIC CHIP	0.0022μF	10% 50V
C463	1-126-961-11	ELECT	2.2μF	20%	50V	C835	1-163-235-11	CERAMIC CHIP	22pF	5% 50V
C464	1-126-933-11	ELECT	100μF	20%	16V	C842	1-164-004-11	CERAMIC CHIP	0.1μF	10% 25V
C465	1-128-551-11	ELECT	22μF	20%	25V	C843	1-104-664-11	ELECT	47μF	20% 25V
C466	1-128-551-11	ELECT	22μF	20%	25V	C845	1-163-038-91	CERAMIC CHIP	0.1μF	25V
C467	1-104-664-11	ELECT	47μF	20%	25V	C848	1-163-038-91	CERAMIC CHIP	0.1μF	25V
C468	1-126-963-11	ELECT	4.7μF	20%	50V	C849	1-104-664-11	ELECT	47μF	20% 25V
C469	1-128-551-11	ELECT	22μF	20%	25V	C850	1-104-664-11	ELECT	47μF	20% 25V
C470	1-104-664-11	ELECT	47μF	20%	25V	C851	1-163-038-91	CERAMIC CHIP	0.1μF	25V
C471	1-126-963-11	ELECT	4.7μF	20%	50V	C852	1-104-664-11	ELECT	47μF	20% 25V
C473	1-104-665-11	ELECT	100μF	20%	25V	C853	1-163-038-91	CERAMIC CHIP	0.1μF	25V
C474	1-130-495-00	MYLAR	0.1μF	5%	50V	C854	1-163-038-91	CERAMIC CHIP	0.1μF	25V
C475	1-130-495-00	MYLAR	0.1μF	5%	50V	C855	1-163-001-11	CERAMIC CHIP	220pF	10% 50V
C476	1-130-495-00	MYLAR	0.1μF	5%	50V	C856	1-104-664-11	ELECT	47μF	20% 25V
C477	1-130-495-00	MYLAR	0.1μF	5%	50V	C858	1-163-038-91	CERAMIC CHIP	0.1μF	25V
C681	1-126-935-11	ELECT	470μF	20%	16V	C862	1-164-004-11	CERAMIC CHIP	0.1μF	10% 25V
C682	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V	C863	1-163-231-11	CERAMIC CHIP	15pF	5% 50V
C683	1-126-935-11	ELECT	470μF	20%	16V	C864	1-163-239-11	CERAMIC CHIP	33pF	5% 50V
C684	1-126-933-11	ELECT	100μF	20%	16V	C865	1-164-004-11	CERAMIC CHIP	0.1μF	10% 25V
C685	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V	C866	1-163-038-91	CERAMIC CHIP	0.1μF	25V
C686	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V	C867	1-109-982-11	CERAMIC CHIP	1μF	10% 10V
C687	1-128-551-11	ELECT	22μF	20%	25V	C868	1-163-038-91	CERAMIC CHIP	0.1μF	25V
C688	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V	C869	1-163-021-91	CERAMIC CHIP	0.01μF	10% 50V
C801	1-163-143-00	CERAMIC CHIP	0.0012μF	5%	50V	C870	1-104-664-11	ELECT	47μF	20% 25V
C802	1-163-016-00	CERAMIC CHIP	0.0039μF	10%	50V	C871	1-126-963-11	ELECT	4.7μF	20% 50V
C803	1-163-016-00	CERAMIC CHIP	0.0039μF	10%	50V	C872	1-163-239-11	CERAMIC CHIP	33pF	5% 50V
C804	1-163-038-91	CERAMIC CHIP	0.1μF		25V	C873	1-163-038-91	CERAMIC CHIP	0.1μF	25V
C805	1-163-038-91	CERAMIC CHIP	0.1μF		25V	C875	1-104-664-11	ELECT	47μF	20% 25V
C806	1-104-664-11	ELECT	47μF	20%	25V	C876	1-163-038-91	CERAMIC CHIP	0.1μF	25V
C807	1-163-038-91	CERAMIC CHIP	0.1μF		25V	C877	1-104-664-11	ELECT	47μF	20% 25V
C808	1-163-016-00	CERAMIC CHIP	0.0039μF	10%	50V	C878	1-104-664-11	ELECT	47μF	20% 25V
C809	1-163-016-00	CERAMIC CHIP	0.0039μF	10%	50V	C879	1-104-664-11	ELECT	47μF	20% 25V
C810	1-163-038-91	CERAMIC CHIP	0.1μF		25V	C880	1-163-038-91	CERAMIC CHIP	0.1μF	25V
C811	1-104-664-11	ELECT	47μF	20%	25V	C881	1-163-038-91	CERAMIC CHIP	0.1μF	25V
C812	1-163-038-91	CERAMIC CHIP	0.1μF		25V	C882	1-163-038-91	CERAMIC CHIP	0.1μF	25V
C813	1-104-664-11	ELECT	47μF	20%	25V	C883	1-104-664-11	ELECT	47μF	20% 25V
C814	1-163-259-91	CERAMIC CHIP	220pF	5%	50V	C884	1-104-664-11	ELECT	47μF	20% 25V
C815	1-163-259-91	CERAMIC CHIP	220pF	5%	50V	C885	1-104-664-11	ELECT	47μF	20% 25V
C816	1-163-038-91	CERAMIC CHIP	0.1μF		25V	C886	1-104-664-11	ELECT	47μF	20% 25V
						C887	1-104-664-11	ELECT	47μF	20% 25V

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REF. NO.	PART NO.	DESCRIPTION	REMARK			REF. NO.	PART NO.	DESCRIPTION	REMARK		
C888	1-104-664-11	ELECT	47μF	20%	25V	C961	1-163-038-91	CERAMIC CHIP	0.1μF	25V	
C889	1-163-038-91	CERAMIC CHIP	0.1μF	25V		C962	1-163-038-91	CERAMIC CHIP	0.1μF	25V	
C890	1-104-664-11	ELECT	47μF	20%	25V	C963	1-104-664-11	ELECT	47μF	20%	25V
C891	1-163-038-91	CERAMIC CHIP	0.1μF	25V		C964	1-104-664-11	ELECT	47μF	20%	25V
C892	1-104-664-11	ELECT	47μF	20%	25V	C965	1-104-664-11	ELECT	47μF	20%	25V
C893	1-163-038-91	CERAMIC CHIP	0.1μF	25V		C966	1-104-664-11	ELECT	47μF	20%	25V
C894	1-104-664-11	ELECT	47μF	20%	25V	C967	1-104-664-11	ELECT	47μF	20%	25V
C897	1-163-038-91	CERAMIC CHIP	0.1μF	25V		C968	1-104-664-11	ELECT	47μF	20%	25V
C898	1-126-934-11	ELECT	220μF	20%	16V	C969	1-163-038-91	CERAMIC CHIP	0.1μF	25V	
C899	1-163-222-11	CERAMIC CHIP	5pF	0.25pF50V		C970	1-163-038-91	CERAMIC CHIP	0.1μF	25V	
C900	1-163-222-11	CERAMIC CHIP	5pF	0.25pF50V		C971	1-104-664-11	ELECT	47μF	20%	25V
C901	1-163-222-11	CERAMIC CHIP	5pF	0.25pF50V		C1401	1-128-551-11	ELECT	22μF	20%	25V
C902	1-163-222-11	CERAMIC CHIP	5pF	0.25pF50V		C1402	1-163-038-91	CERAMIC CHIP	0.1μF	25V	
C903	1-163-222-11	CERAMIC CHIP	5pF	0.25pF50V		C1403	1-104-664-11	ELECT	47μF	20%	25V
C904	1-163-222-11	CERAMIC CHIP	5pF	0.25pF50V		C1404	1-163-038-91	CERAMIC CHIP	0.1μF	25V	
C905	1-163-222-11	CERAMIC CHIP	5pF	0.25pF50V		C1405	1-104-664-11	ELECT	47μF	20%	25V
C906	1-163-222-11	CERAMIC CHIP	5pF	0.25pF50V		C1406	1-164-489-11	CERAMIC CHIP	0.22μF	10%	16V
C907	1-163-222-11	CERAMIC CHIP	5pF	0.25pF50V		C1407	1-163-038-91	CERAMIC CHIP	0.1μF	25V	
C908	1-163-222-11	CERAMIC CHIP	5pF	0.25pF50V		C1408	1-163-251-11	CERAMIC CHIP	100pF	5%	50V
C909	1-163-222-11	CERAMIC CHIP	5pF	0.25pF50V		C1409	1-104-664-11	ELECT	47μF	20%	25V
C910	1-163-222-11	CERAMIC CHIP	5pF	0.25pF50V		C1410	1-163-017-00	CERAMIC CHIP	0.0047μF	10%	50V
C911	1-164-690-91	CERAMIC CHIP	0.0022μF	5%	50V	C1411	1-164-346-11	CERAMIC CHIP	1μF	16V	
C912	1-104-664-11	ELECT	47μF	20%	25V	C1412	1-164-489-11	CERAMIC CHIP	0.22μF	10%	16V
C913	1-104-664-11	ELECT	47μF	20%	25V	C1413	1-164-005-11	CERAMIC CHIP	0.47μF	16V	
C914	1-104-664-11	ELECT	47μF	20%	25V	C1414	1-163-038-91	CERAMIC CHIP	0.1μF	25V	
C915	1-104-664-11	ELECT	47μF	20%	25V	C1415	1-163-251-11	CERAMIC CHIP	100pF	5%	50V
C916	1-104-664-11	ELECT	47μF	20%	25V	C1416	1-126-963-11	ELECT	4.7μF	20%	50V
C917	1-104-664-11	ELECT	47μF	20%	25V	C1417	1-163-038-91	CERAMIC CHIP	0.1μF	25V	
C918	1-163-275-11	CERAMIC CHIP	0.001μF	5%	50V	C1418	1-163-038-91	CERAMIC CHIP	0.1μF	25V	
C919	1-163-275-11	CERAMIC CHIP	0.001μF	5%	50V	C1419	1-163-038-91	CERAMIC CHIP	0.1μF	25V	
C920	1-163-275-11	CERAMIC CHIP	0.001μF	5%	50V	C1420	1-163-005-11	CERAMIC CHIP	470pF	10%	50V
C921	1-163-275-11	CERAMIC CHIP	0.001μF	5%	50V	C1421	1-126-934-11	ELECT	220μF	20%	16V
C922	1-163-275-11	CERAMIC CHIP	0.001μF	5%	50V	C1422	1-126-960-11	ELECT	1μF	20%	50V
C923	1-163-275-11	CERAMIC CHIP	0.001μF	5%	50V	C1423	1-164-005-11	CERAMIC CHIP	0.47μF	16V	
C926	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V	C1424	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V
C927	1-163-038-91	CERAMIC CHIP	0.1μF	25V		C1425	1-163-017-00	CERAMIC CHIP	0.0047μF	10%	50V
C928	1-163-038-91	CERAMIC CHIP	0.1μF	25V		C1426	1-164-346-11	CERAMIC CHIP	1μF	16V	
C929	1-163-038-91	CERAMIC CHIP	0.1μF	25V		C1427	1-163-038-91	CERAMIC CHIP	0.1μF	25V	
C930	1-163-038-91	CERAMIC CHIP	0.1μF	25V		C1428	1-164-005-11	CERAMIC CHIP	0.47μF	16V	
C931	1-163-038-91	CERAMIC CHIP	0.1μF	25V		C1429	1-163-227-11	CERAMIC CHIP	10pF	0.5pF	50V
C932	1-163-038-91	CERAMIC CHIP	0.1μF	25V		C1430	1-126-963-11	ELECT	4.7μF	20%	50V
C933	1-163-017-00	CERAMIC CHIP	0.0047μF	10%	50V	C1431	1-163-038-91	CERAMIC CHIP	0.1μF	25V	
C934	1-163-017-00	CERAMIC CHIP	0.0047μF	10%	50V	C1432	1-163-005-11	CERAMIC CHIP	470pF	10%	50V
C935	1-163-017-00	CERAMIC CHIP	0.0047μF	10%	50V	C1433	1-126-934-11	ELECT	220μF	20%	16V
C936	1-163-017-00	CERAMIC CHIP	0.0047μF	10%	50V	C1434	1-126-960-11	ELECT	1μF	20%	50V
C937	1-163-017-00	CERAMIC CHIP	0.0047μF	10%	50V	C1435	1-164-005-11	CERAMIC CHIP	0.47μF	16V	
C938	1-163-017-00	CERAMIC CHIP	0.0047μF	10%	50V	C1436	1-126-934-11	ELECT	220μF	20%	16V
C951	1-163-019-00	CERAMIC CHIP	0.0068μF	10%	50V	C1437	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V
C952	1-163-019-00	CERAMIC CHIP	0.0068μF	10%	50V	C1438	1-163-038-91	CERAMIC CHIP	0.1μF	25V	
C953	1-163-019-00	CERAMIC CHIP	0.0068μF	10%	50V	C1439	1-163-038-91	CERAMIC CHIP	0.1μF	25V	
C954	1-163-019-00	CERAMIC CHIP	0.0068μF	10%	50V	C1440	1-163-227-11	CERAMIC CHIP	10pF	0.5pF	50V
C955	1-163-019-00	CERAMIC CHIP	0.0068μF	10%	50V	C1441	1-126-933-11	ELECT	100μF	20%	16V
C956	1-163-019-00	CERAMIC CHIP	0.0068μF	10%	50V	C1442	1-128-551-11	ELECT	22μF	20%	25V
C957	1-163-038-91	CERAMIC CHIP	0.1μF	25V		C1443	1-163-038-91	CERAMIC CHIP	0.1μF	25V	
C958	1-163-038-91	CERAMIC CHIP	0.1μF	25V		C1445	1-163-038-91	CERAMIC CHIP	0.1μF	25V	
C959	1-163-038-91	CERAMIC CHIP	0.1μF	25V		C1446	1-163-038-91	CERAMIC CHIP	0.1μF	25V	
C960	1-163-038-91	CERAMIC CHIP	0.1μF	25V							



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK		
C1447	1-163-038-91	CERAMIC CHIP	0.1μF 25V	C1518	1-104-664-11	ELECT	47μF 20% 25V		
C1448	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	C1519	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V		
C1449	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	C1520	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V		
C1450	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	C1521	1-126-933-11	ELECT	100μF 20% 16V		
C1451	1-163-038-91	CERAMIC CHIP	0.1μF 25V	C1522	1-126-933-11	ELECT	100μF 20% 16V		
C1452	1-126-934-11	ELECT	220μF 20% 16V	C1523	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V		
C1453	1-163-038-91	CERAMIC CHIP	0.1μF 25V	C1524	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V		
C1454	1-163-038-91	CERAMIC CHIP	0.1μF 25V	C1525	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V		
C1455	1-163-038-91	CERAMIC CHIP	0.1μF 25V	C1526	1-126-964-11	ELECT	10μF 20% 50V		
C1457	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	C1529	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V		
C1458	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	C1601	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V		
C1459	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	C1602	1-163-133-00	CERAMIC CHIP	470pF 5% 50V		
C1460	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	C1603	1-164-344-11	CERAMIC CHIP	0.068μF 10% 25V		
C1461	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	C1604	1-163-019-00	CERAMIC CHIP	0.0068μF 10% 50V		
C1462	1-163-227-11	CERAMIC CHIP	10pF 0.5pF 50V	C1605	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V		
C1463	1-163-038-91	CERAMIC CHIP	0.1μF 25V	C1606	1-117-720-11	CERAMIC CHIP	4.7μF 10V		
C1464	1-163-038-91	CERAMIC CHIP	0.1μF 25V	C1607	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V		
C1465	1-163-227-11	CERAMIC CHIP	10pF 0.5pF 50V	C1608	1-163-239-11	CERAMIC CHIP	33pF 5% 50V		
C1466	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	C1610	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V		
C1467	1-163-038-91	CERAMIC CHIP	0.1μF 25V	C1613	1-164-344-11	CERAMIC CHIP	0.068μF 10% 25V		
C1468	1-163-038-91	CERAMIC CHIP	0.1μF 25V	C1614	1-163-019-00	CERAMIC CHIP	0.0068μF 10% 50V		
C1469	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	C1615	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V		
C1470	1-163-259-91	CERAMIC CHIP	220pF 5% 50V	C1617	1-163-133-00	CERAMIC CHIP	470pF 5% 50V		
C1474	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	C1618	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V		
C1475	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	C1619	1-163-038-91	CERAMIC CHIP	0.1μF 25V		
C1476	1-163-038-91	CERAMIC CHIP	0.1μF 25V	C1620	1-104-664-11	ELECT	47μF 20% 25V		
C1477	1-163-038-91	CERAMIC CHIP	0.1μF 25V	<CONNECTOR>					
C1479	1-164-346-11	CERAMIC CHIP	1μF 16V	CN001	* 1-564-507-11	PLUG, CONNECTOR 4P			
C1480	1-164-346-11	CERAMIC CHIP	1μF 16V	CN002	* 1-564-513-11	PLUG, CONNECTOR 10P			
C1481	1-126-933-11	ELECT	100μF 20% 16V	CN003	1-573-979-21	CONNECTOR, BOARD TO BOARD 11P			
C1483	1-163-038-91	CERAMIC CHIP	0.1μF 25V	CN004	1-573-298-21	CONNECTOR, BOARD TO BOARD 20P			
C1484	1-163-038-91	CERAMIC CHIP	0.1μF 25V	CN151	1-695-915-11	TAB (CONTACT)			
C1486	1-163-038-91	CERAMIC CHIP	0.1μF 25V	CN201	1-573-298-21	CONNECTOR, BOARD TO BOARD 20P			
C1487	1-126-964-11	ELECT	10μF 20% 50V	CN202	* 1-779-892-11	CONNECTOR, BOARD TO BOARD 10P			
C1488	1-163-038-91	CERAMIC CHIP	0.1μF 25V	CN203	* 1-564-509-11	PLUG, CONNECTOR 6P			
C1489	1-164-346-11	CERAMIC CHIP	1μF 16V	CN204	* 1-564-512-11	PLUG, CONNECTOR 9P			
C1490	1-163-038-91	CERAMIC CHIP	0.1μF 25V	CN205	1-695-915-11	TAB (CONTACT)			
C1491	1-164-346-11	CERAMIC CHIP	1μF 16V	CN401	1-573-298-21	CONNECTOR, BOARD TO BOARD 20P			
C1492	1-164-346-11	CERAMIC CHIP	1μF 16V	CN402	* 1-779-892-11	CONNECTOR, BOARD TO BOARD 10P			
C1493	1-164-346-11	CERAMIC CHIP	1μF 16V	CN403	* 1-564-507-11	PLUG, CONNECTOR 4P			
C1494	1-104-664-11	ELECT	47μF 20% 25V	CN681	* 1-779-892-11	CONNECTOR, BOARD TO BOARD 10P			
C1496	1-163-038-91	CERAMIC CHIP	0.1μF 25V	CN801	* 1-779-892-11	CONNECTOR, BOARD TO BOARD 10P			
C1497	1-163-038-91	CERAMIC CHIP	0.1μF 25V	CN802	* 1-564-511-11	PLUG, CONNECTOR 8P			
C1499	1-163-259-91	CERAMIC CHIP	220pF 5% 50V	<DIODE>					
C1500	1-163-038-91	CERAMIC CHIP	0.1μF 25V	D001	8-719-988-61	DIODE 1SS355TE-17			
C1501	1-104-664-11	ELECT	47μF 20% 25V	D002	8-719-988-61	DIODE 1SS355TE-17			
C1504	1-126-964-11	ELECT	10μF 20% 50V	D003	8-719-988-61	DIODE 1SS355TE-17			
C1506	1-104-664-11	ELECT	47μF 20% 25V	D004	8-719-069-55	DIODE UDZS-TE17-5.6B			
C1507	1-104-664-11	ELECT	47μF 20% 25V	D005	8-719-988-61	DIODE 1SS355TE-17			
C1508	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	D006	8-719-069-55	DIODE UDZS-TE17-5.6B			
C1510	1-163-245-11	CERAMIC CHIP	56pF 5% 50V	D007	8-719-069-55	DIODE UDZS-TE17-5.6B			
C1511	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	D151	8-719-977-81	DIODE UDZ-TE-17-33B			
C1512	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	D201	8-719-988-61	DIODE 1SS355TE-17			
C1513	1-163-038-91	CERAMIC CHIP	0.1μF 25V						
C1514	1-163-038-91	CERAMIC CHIP	0.1μF 25V						
C1515	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V						
C1516	1-163-038-91	CERAMIC CHIP	0.1μF 25V						

KP-48V85/53V85/61V85

RM-Y905 RM-Y905 RM-Y905

A

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
D202	8-719-977-28	DIODE UDZS-TE17-10B				<FERRITE BEAD>	
D204	8-719-069-55	DIODE UDZS-TE17-5.6B		FB001	1-414-135-11	FERRITE	0μH
D205	8-719-069-55	DIODE UDZS-TE17-5.6B		FB151	1-414-135-11	FERRITE	0μH
D206	8-719-988-61	DIODE 1SS355TE-17		FB152	1-414-135-11	FERRITE	0μH
D207	8-719-988-61	DIODE 1SS355TE-17		FB202	1-414-553-11	FERRITE	0μH
D208	8-719-069-55	DIODE UDZS-TE17-5.6B		FB203	1-414-553-11	FERRITE	0μH
D209	8-719-988-61	DIODE 1SS355TE-17		FB204	1-216-304-11	RES-CHIP	3.3
D301	8-719-988-61	DIODE 1SS355TE-17		FB205	1-414-553-11	FERRITE	0μH
D302	8-719-988-61	DIODE 1SS355TE-17		FB206	1-216-017-91	RES-CHIP	47
D303	8-719-988-61	DIODE 1SS355TE-17		FB207	1-216-017-91	RES-CHIP	47
D304	8-719-069-59	DIODE UDZS-TE17-8.2B		FB209	1-216-017-91	RES-CHIP	47
D305	8-719-977-28	DIODE UDZS-TE17-10B		FB210	1-414-553-11	FERRITE	0μH
D402	8-719-988-61	DIODE 1SS355TE-17		FB211	1-414-553-11	FERRITE	0μH
D403	8-719-988-61	DIODE 1SS355TE-17		FB212	1-216-295-91	SHORT	0
D404	8-719-988-61	DIODE 1SS355TE-17		FB213	1-414-553-11	FERRITE	0μH
D405	8-719-988-61	DIODE 1SS355TE-17		FB214	1-414-553-11	FERRITE	0μH
D406	8-719-056-95	DIODE UDZ-TE-17-22B		FB215	1-216-295-91	SHORT	0
D407	8-719-988-61	DIODE 1SS355TE-17		FB216	1-216-295-91	SHORT	0
D408	8-719-988-61	DIODE 1SS355TE-17		FB217	1-216-295-91	SHORT	0
D409	8-719-988-61	DIODE 1SS355TE-17		FB301	1-216-295-91	SHORT	0
D410	8-719-056-95	DIODE UDZ-TE-17-22B		FB401	1-414-135-11	FERRITE	0μH
D411	8-719-056-95	DIODE UDZ-TE-17-22B		FB801	1-414-135-11	FERRITE	0μH
D412	8-719-056-95	DIODE UDZ-TE-17-22B		FB802	1-414-135-11	FERRITE	0μH
D413	8-719-056-95	DIODE UDZ-TE-17-22B		FB803	1-414-135-11	FERRITE	0μH
D414	8-719-056-95	DIODE UDZ-TE-17-22B		FB804	1-414-135-11	FERRITE	0μH
D415	8-719-056-95	DIODE UDZ-TE-17-22B		FB805	1-414-135-11	FERRITE	0μH
D416	8-719-988-61	DIODE 1SS355TE-17		FB806	1-414-135-11	FERRITE	0μH
D417	8-719-988-61	DIODE 1SS355TE-17		FB807	1-414-135-11	FERRITE	0μH
D418	8-719-056-95	DIODE UDZ-TE-17-22B		FB808	1-414-135-11	FERRITE	0μH
D420	8-719-988-61	DIODE 1SS355TE-17		FB1401	1-414-135-11	FERRITE	0μH
D421	8-719-988-61	DIODE 1SS355TE-17		FB1402	1-414-135-11	FERRITE	0μH
D801	8-719-988-61	DIODE 1SS355TE-17		FB1403	1-414-135-11	FERRITE	0μH
D802	8-719-988-61	DIODE 1SS355TE-17		FB1404	1-414-135-11	FERRITE	0μH
D803	8-719-988-61	DIODE 1SS355TE-17		FB1405	1-414-135-11	FERRITE	0μH
D804	8-719-988-61	DIODE 1SS355TE-17		FB1406	1-414-135-11	FERRITE	0μH
D805	8-719-069-55	DIODE UDZS-TE17-5.6B		FB1407	1-414-135-11	FERRITE	0μH
D806	8-719-069-55	DIODE UDZS-TE17-5.6B		FB1408	1-414-135-11	FERRITE	0μH
D807	8-719-069-55	DIODE UDZS-TE17-5.6B		FB1409	1-414-135-11	FERRITE	0μH
D808	8-719-069-55	DIODE UDZS-TE17-5.6B		FB1410	1-414-135-11	FERRITE	0μH
D809	8-719-988-61	DIODE 1SS355TE-17		FB1411	1-414-135-11	FERRITE	0μH
D810	8-719-988-61	DIODE 1SS355TE-17		FB1412	1-414-135-11	FERRITE	0μH
D816	8-719-988-61	DIODE 1SS355TE-17		FB1413	1-414-135-11	FERRITE	0μH
D817	8-719-988-61	DIODE 1SS355TE-17		FB1414	1-414-135-11	FERRITE	0μH
D818	8-719-988-61	DIODE 1SS355TE-17				<FILTER>	
D819	8-719-988-61	DIODE 1SS355TE-17		FL201	1-239-847-11	FILTER, LOW PASS	
D820	8-719-988-61	DIODE 1SS355TE-17		FL202	1-239-847-11	FILTER, LOW PASS	
D821	8-719-988-61	DIODE 1SS355TE-17		FL203	1-239-847-11	FILTER, LOW PASS	
D822	8-719-988-61	DIODE 1SS355TE-17		FL401	1-412-911-11	FERRITE	0μH
D823	8-719-988-61	DIODE 1SS355TE-17				<IC>	
D824	8-719-988-61	DIODE 1SS355TE-17		IC001	8-759-352-91	IC PST9143NL	
D825	8-719-988-61	DIODE 1SS355TE-17		IC002	8-752-916-28	IC CXP750010-026Q	
D826	8-719-988-61	DIODE 1SS355TE-17		IC004	8-759-527-76	IC M24C08-MN6T	
D1408	8-719-988-61	DIODE 1SS355TE-17		IC202	8-759-568-27	IC μPD424210LE-60-E2	



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
IC203	8-759-161-24	IC μPC659AGS-E2				<COIL>	
IC204	8-759-536-12	IC μPD64081BGF-3BA		L001	1-414-183-41	INDUCTOR	10μH
IC205	8-759-583-47	IC μPC2933T-E1		L004	1-410-397-21	FERRITE	1.1μH
IC206	8-752-091-25	IC CXA2147Q		L151	1-414-187-11	INDUCTOR	47μH
IC401	8-759-549-74	IC TC9447F-003		L152	1-414-187-11	INDUCTOR	47μH
IC402	8-759-352-91	IC PST9143NL		L153	1-414-187-11	INDUCTOR	47μH
IC403	8-759-578-88	IC BH3868FS-E2		L154	1-414-183-41	INDUCTOR	10μH
IC404	8-759-100-96	IC NJM4558M-T2		L155	1-414-187-11	INDUCTOR	47μH
IC406	8-759-190-89	IC TDA7265		L201	1-412-911-11	FERRITE	0μH
IC681	8-759-459-99	IC PQ09RD11		L203	1-414-187-11	INDUCTOR	47μH
IC682	8-759-459-99	IC PQ09RD11		L204	1-412-911-11	FERRITE	0μH
IC801	8-759-488-29	IC TC7W66FU(TE12R)		L205	1-412-911-11	FERRITE	0μH
IC802	8-759-394-80	IC NJM2058M-TE2		L206	1-412-911-11	FERRITE	0μH
IC803	8-759-589-66	IC CM0006CF		L207	1-412-911-11	FERRITE	0μH
IC804	8-759-394-80	IC NJM2058M-TE2		L208	1-414-187-11	INDUCTOR	47μH
IC805	8-752-903-32	IC CXP86324-024Q		L209	1-412-911-11	FERRITE	0μH
IC806	8-759-394-80	IC NJM2058M-TE2		L210	1-412-911-11	FERRITE	0μH
IC807	8-759-546-22	IC μPD6376GS-E2		L211	1-414-857-11	INDUCTOR	100μH
IC808	8-759-032-11	IC TC74HC04AF(EL)		L212	1-414-856-11	INDUCTOR	10μH
IC809	8-759-295-09	IC TLC2932IPW-E20		L213	1-414-183-41	INDUCTOR	10μH
IC810	8-759-468-90	IC ST24E16FM6TR		L302	1-414-187-11	INDUCTOR	47μH
IC811	8-759-352-91	IC PST9143NL		L401	1-412-911-11	FERRITE	0μH
IC812	8-759-235-19	IC TC74HC08AF(EL)		L402	1-412-911-11	FERRITE	0μH
IC814	8-759-032-20	IC TC74HC32AF(EL)		L681	1-406-975-21	INDUCTOR	47μH
IC815	8-759-546-22	IC μPD6376GS-E2		L801	1-414-183-41	INDUCTOR	10μH
IC816	8-759-546-22	IC μPD6376GS-E2		L802	1-414-183-41	INDUCTOR	10μH
IC817	8-759-546-22	IC μPD6376GS-E2		L803	1-414-183-41	INDUCTOR	10μH
IC818	8-759-100-96	IC NJM2058M-TE2		L804	1-410-397-21	FERRITE	1.1μH
IC819	8-759-106-02	IC μPC4570G2-E2		L809	1-414-183-41	INDUCTOR	10μH
IC820	8-759-106-02	IC μPC4570G2-E2		L816	1-410-397-21	FERRITE	1.1μH
IC821	8-759-106-02	IC μPC4570G2-E2		L823	1-410-494-11	INDUCTOR	1mH
IC822	8-759-106-02	IC μPC4570G2-E2		L824	1-410-494-11	INDUCTOR	1mH
IC823	8-759-106-02	IC μPC4570G2-E2		L825	1-410-494-11	INDUCTOR	1mH
IC824	8-759-106-02	IC μPC4570G2-E2		L826	1-410-494-11	INDUCTOR	1mH
IC1401	8-759-351-59	IC HM538253BJ-7Z		L827	1-410-494-11	INDUCTOR	1mH
IC1402	8-752-086-80	IC CXA2019AQ-T4		L828	1-410-494-11	INDUCTOR	1mH
IC1403	8-752-086-80	IC CXA2019AQ-T4		L829	1-410-397-21	FERRITE	1.1μH
IC1404	8-759-932-69	IC BU4053BCF-T2		L830	1-407-495-00	INDUCTOR	1.8mH
IC1405	8-759-498-32	IC SAB9076H/N4		L831	1-407-495-00	INDUCTOR	1.8mH
IC1406	8-759-932-69	IC BU4053BCF-T2		L832	1-407-495-00	INDUCTOR	1.8mH
IC1407	8-752-080-75	IC CXA2039M-T6		L833	1-407-495-00	INDUCTOR	1.8mH
IC1408	8-759-926-17	IC TC74HC153AF(EL)		L834	1-407-495-00	INDUCTOR	1.8mH
IC1409	8-752-058-68	IC CXA1315M-T4		L835	1-407-495-00	INDUCTOR	1.8mH
IC1410	8-759-353-02	IC NJM2533M(TE2)		L843	1-414-183-41	INDUCTOR	10μH
IC1412	8-759-352-91	IC PST9143NL		L1401	1-410-397-21	FERRITE	1.1μH
IC1601	8-759-638-04	IC Z8622912SSC-00TR		L1402	1-414-187-11	INDUCTOR	47μH
IC1602	8-759-638-05	IC Z8613012SSC-00TR		L1403	1-414-187-11	INDUCTOR	47μH
IC1603	8-759-352-91	IC PST9143NL		L1404	1-414-187-11	INDUCTOR	47μH
				L1405	1-414-187-11	INDUCTOR	47μH
				L1406	1-414-187-11	INDUCTOR	47μH
				L1407	1-414-187-11	INDUCTOR	47μH
<CHIP CONDUCTOR>							
JR003	1-216-295-91	SHORT	0	L1408	1-414-187-11	INDUCTOR	47μH
JR004	1-216-295-91	SHORT	0	L1409	1-414-187-11	INDUCTOR	47μH
				L1410	1-414-187-11	INDUCTOR	47μH
				L1411	1-410-397-21	FERRITE	1.1μH
				L1412	1-410-397-21	FERRITE	1.1μH

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RM-Y905 RM-Y905 RM-Y905





REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
Q1424	8-729-216-22	TRANSISTOR	2SB709A-QRS-TX	R052	1-216-049-91	RES-CHIP	1K 5% 1/10W
Q1601	8-729-422-27	TRANSISTOR	2SD601A-QRS-TX	R053	1-216-049-91	RES-CHIP	1K 5% 1/10W
Q1602	8-729-900-53	TRANSISTOR	DTC114EKA-T146	R054	1-216-033-00	RES-CHIP	220 5% 1/10W
<RESISTOR>							
R001	1-216-041-00	RES-CHIP	470 5% 1/10W	R055	1-216-033-00	RES-CHIP	220 5% 1/10W
R002	1-216-057-00	RES-CHIP	2.2K 5% 1/10W	R056	1-216-049-91	RES-CHIP	1K 5% 1/10W
R003	1-216-049-91	RES-CHIP	1K 5% 1/10W	R057	1-216-049-91	RES-CHIP	1K 5% 1/10W
R004	1-216-121-91	RES-CHIP	1M 5% 1/10W	R058	1-216-089-91	RES-CHIP	47K 5% 1/10W
R005	1-216-097-91	RES-CHIP	100K 5% 1/10W	R059	1-216-089-91	RES-CHIP	47K 5% 1/10W
R006	1-216-033-00	RES-CHIP	220 5% 1/10W	R060	1-216-049-91	RES-CHIP	1K 5% 1/10W
R007	1-216-073-00	RES-CHIP	10K 5% 1/10W	R061	1-216-041-00	RES-CHIP	470 5% 1/10W
R008	1-216-033-00	RES-CHIP	220 5% 1/10W	R062	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
R009	1-216-033-00	RES-CHIP	220 5% 1/10W	R063	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
R010	1-216-073-00	RES-CHIP	10K 5% 1/10W	R064	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
R011	1-216-049-91	RES-CHIP	1K 5% 1/10W	R066	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
R012	1-216-033-00	RES-CHIP	220 5% 1/10W	R068	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
R013	1-216-073-00	RES-CHIP	10K 5% 1/10W	R069	1-216-033-00	RES-CHIP	220 5% 1/10W
R014	1-216-065-91	RES-CHIP	4.7K 5% 1/10W	R070	1-216-033-00	RES-CHIP	220 5% 1/10W
R015	1-216-065-91	RES-CHIP	4.7K 5% 1/10W	R071	1-216-033-00	RES-CHIP	220 5% 1/10W
R016	1-216-073-00	RES-CHIP	10K 5% 1/10W	R072	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
R017	1-216-033-00	RES-CHIP	220 5% 1/10W	R073	1-216-295-91	SHORT	0
R018	1-216-033-00	RES-CHIP	220 5% 1/10W	R074	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
R019	1-216-033-00	RES-CHIP	220 5% 1/10W	R075	1-216-061-00	RES-CHIP	3.3K 5% 1/10W
R020	1-216-033-00	RES-CHIP	220 5% 1/10W	R077	1-216-053-00	RES-CHIP	1.5K 5% 1/10W
R021	1-216-033-00	RES-CHIP	220 5% 1/10W	R078	1-216-025-91	RES-CHIP	100 5% 1/10W
R022	1-216-033-00	RES-CHIP	220 5% 1/10W	R079	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
R023	1-216-049-91	RES-CHIP	1K 5% 1/10W	R084	1-216-025-91	RES-CHIP	100 5% 1/10W
R024	1-216-025-91	RES-CHIP	100 5% 1/10W	R085	1-216-053-00	RES-CHIP	1.5K 5% 1/10W
R025	1-216-025-91	RES-CHIP	100 5% 1/10W	R086	1-216-053-00	RES-CHIP	1.5K 5% 1/10W
R026	1-216-025-91	RES-CHIP	100 5% 1/10W	R087	1-216-053-00	RES-CHIP	1.5K 5% 1/10W
R027	1-216-025-91	RES-CHIP	100 5% 1/10W	R088	1-216-025-91	RES-CHIP	100 5% 1/10W
R028	1-216-065-91	RES-CHIP	4.7K 5% 1/10W	R089	1-216-055-00	RES-CHIP	1.8K 5% 1/10W
R029	1-216-065-91	RES-CHIP	4.7K 5% 1/10W	R090	1-216-113-00	RES-CHIP	470K 5% 1/10W
R030	1-216-033-00	RES-CHIP	220 5% 1/10W	R091	1-216-017-91	RES-CHIP	47 5% 1/10W
R031	1-216-037-00	RES-CHIP	330 5% 1/10W	R092	1-216-113-00	RES-CHIP	470K 5% 1/10W
R032	1-216-033-00	RES-CHIP	220 5% 1/10W	R093	1-216-017-91	RES-CHIP	47 5% 1/10W
R033	1-216-033-00	RES-CHIP	220 5% 1/10W	R094	1-216-113-00	RES-CHIP	470K 5% 1/10W
R034	1-216-033-00	RES-CHIP	220 5% 1/10W	R095	1-216-017-91	RES-CHIP	47 5% 1/10W
R035	1-216-033-00	RES-CHIP	220 5% 1/10W	R096	1-216-055-00	RES-CHIP	1.8K 5% 1/10W
R036	1-216-033-00	RES-CHIP	220 5% 1/10W	R097	1-216-055-00	RES-CHIP	1.8K 5% 1/10W
R037	1-216-057-00	RES-CHIP	2.2K 5% 1/10W	R099	1-216-041-00	RES-CHIP	470K 5% 1/10W
R038	1-216-033-00	RES-CHIP	220 5% 1/10W	R100	1-216-041-00	RES-CHIP	470K 5% 1/10W
R039	1-216-033-00	RES-CHIP	220 5% 1/10W	R101	1-216-041-00	RES-CHIP	470K 5% 1/10W
R040	1-216-057-00	RES-CHIP	2.2K 5% 1/10W	R102	1-216-113-00	RES-CHIP	470K 5% 1/10W
R041	1-216-033-00	RES-CHIP	220 5% 1/10W	R103	1-216-113-00	RES-CHIP	470K 5% 1/10W
R042	1-216-033-00	RES-CHIP	220 5% 1/10W	R104	1-216-113-00	RES-CHIP	470K 5% 1/10W
R043	1-216-057-00	RES-CHIP	2.2K 5% 1/10W	R105	1-216-017-91	RES-CHIP	47 5% 1/10W
R044	1-216-121-91	RES-CHIP	1M 5% 1/10W	R106	1-216-017-91	RES-CHIP	47 5% 1/10W
R045	1-216-097-91	RES-CHIP	100K 5% 1/10W	R107	1-216-017-91	RES-CHIP	47 5% 1/10W
R046	1-216-073-00	RES-CHIP	10K 5% 1/10W	R108	1-216-113-00	RES-CHIP	470K 5% 1/10W
R047	1-216-073-00	RES-CHIP	10K 5% 1/10W	R109	1-216-113-00	RES-CHIP	470K 5% 1/10W
R048	1-216-065-91	RES-CHIP	4.7K 5% 1/10W	R110	1-216-043-91	RES-CHIP	560 5% 1/10W
R049	1-216-049-91	RES-CHIP	1K 5% 1/10W	R111	1-216-043-91	RES-CHIP	560 5% 1/10W
R050	1-216-049-91	RES-CHIP	1K 5% 1/10W	R112	1-216-043-91	RES-CHIP	560 5% 1/10W
R051	1-216-049-91	RES-CHIP	1K 5% 1/10W	R113	1-216-113-00	RES-CHIP	470K 5% 1/10W
				R114	1-216-045-00	RES-CHIP	680 5% 1/10W
				R115	1-216-045-00	RES-CHIP	680 5% 1/10W
				R116	1-216-045-00	RES-CHIP	680 5% 1/10W

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RM-Y905 RM-Y905 RM-Y905

A

<u>REF. NO.</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>REMARK</u>	<u>REF. NO.</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>REMARK</u>
R117	1-216-295-91	SHORT	0	R224	1-216-105-91	RES-CHIP	220K 5% 1/10W
R118	1-216-053-00	RES-CHIP	1.5K 5% 1/10W	R225	1-216-071-00	RES-CHIP	8.2K 5% 1/10W
R119	1-216-053-00	RES-CHIP	1.5K 5% 1/10W	R226	1-216-041-00	RES-CHIP	470 5% 1/10W
R120	1-216-061-00	RES-CHIP	3.3K 5% 1/10W	R227	1-216-025-91	RES-CHIP	100 5% 1/10W
R121	1-216-057-00	RES-CHIP	2.2K 5% 1/10W	R228	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
R122	1-216-295-91	SHORT	0	R229	1-216-033-00	RES-CHIP	220 5% 1/10W
R123	1-216-017-91	RES-CHIP	47 5% 1/10W	R230	1-216-025-91	RES-CHIP	100 5% 1/10W
R124	1-216-017-91	RES-CHIP	47 5% 1/10W	R231	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
R125	1-216-017-91	RES-CHIP	47 5% 1/10W	R232	1-216-295-91	SHORT	0
R126	1-216-033-00	RES-CHIP	220 5% 1/10W	R233	1-208-776-11	METAL CHIP	560 0.5% 1/10W
R127	1-216-025-91	RES-CHIP	100 5% 1/10W	R234	1-208-782-11	METAL CHIP	1K 0.5% 1/10W
R128	1-216-025-91	RES-CHIP	100 5% 1/10W	R235	1-216-025-91	RES-CHIP	100 5% 1/10W
R129	1-216-073-00	RES-CHIP	10K 5% 1/10W	R236	1-216-025-91	RES-CHIP	100 5% 1/10W
R130	1-216-073-00	RES-CHIP	10K 5% 1/10W	R237	1-216-047-91	RES-CHIP	820 5% 1/10W
R131	1-216-073-00	RES-CHIP	10K 5% 1/10W	R238	1-208-790-11	METAL CHIP	2.2K 0.5% 1/10W
R132	1-216-295-91	SHORT	0	R239	1-208-822-11	METAL CHIP	47K 0.5% 1/10W
R135	1-216-295-91	SHORT	0	R240	1-216-025-91	RES-CHIP	100 5% 1/10W
R151	1-216-025-91	RES-CHIP	100 5% 1/10W	R241	1-216-025-91	RES-CHIP	100 5% 1/10W
R152	1-216-083-00	RES-CHIP	27K 5% 1/10W	R242	1-216-025-91	RES-CHIP	100 5% 1/10W
R153	1-216-689-11	RES-CHIP	39K 5% 1/10W	R243	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
R154	1-216-043-91	RES-CHIP	560 5% 1/10W	R244	1-216-075-00	RES-CHIP	12K 5% 1/10W
R155	1-216-025-91	RES-CHIP	100 5% 1/10W	R245	1-216-085-00	RES-CHIP	33K 5% 1/10W
R156	1-216-045-00	RES-CHIP	680 5% 1/10W	R246	1-216-049-91	RES-CHIP	1K 5% 1/10W
R157	1-216-049-91	RES-CHIP	1K 5% 1/10W	R247	1-208-793-11	METAL CHIP	3K 0.5% 1/10W
R158	1-216-464-11	METAL OXIDE	18K 5% 2W	R248	1-216-025-91	RES-CHIP	100 5% 1/10W
R159	1-216-027-00	RES-CHIP	120 5% 1/10W	R249	1-216-025-91	RES-CHIP	100 5% 1/10W
R160	1-216-025-91	RES-CHIP	100 5% 1/10W	R250	1-216-049-91	RES-CHIP	1K 5% 1/10W
R161	1-216-083-00	RES-CHIP	27K 5% 1/10W	R251	1-216-025-91	RES-CHIP	100 5% 1/10W
R162	1-216-027-00	RES-CHIP	120 5% 1/10W	R252	1-216-075-00	RES-CHIP	12K 5% 1/10W
R163	1-216-689-11	RES-CHIP	39K 5% 1/10W	R253	1-216-085-00	RES-CHIP	33K 5% 1/10W
R164	1-216-065-91	RES-CHIP	4.7K 5% 1/10W	R255	1-216-025-91	RES-CHIP	100 5% 1/10W
R166	1-216-025-91	RES-CHIP	100 5% 1/10W	R256	1-216-049-91	RES-CHIP	1K 5% 1/10W
R167	1-216-025-91	RES-CHIP	100 5% 1/10W	R257	1-216-025-91	RES-CHIP	100 5% 1/10W
R168	1-216-025-91	RES-CHIP	100 5% 1/10W	R258	1-216-025-91	RES-CHIP	100 5% 1/10W
R169	1-208-789-11	METAL CHIP	2K 0.5% 1/10W	R259	1-216-025-91	RES-CHIP	100 5% 1/10W
R170	1-216-025-91	RES-CHIP	100 5% 1/10W	R260	1-208-810-11	METAL CHIP	15K 0.5% 1/10W
R171	1-216-295-91	SHORT	0	R261	1-216-049-91	RES-CHIP	1K 5% 1/10W
R201	1-414-135-11	FERRITE	0μH	R262	1-216-648-11	METAL CHIP	750 0.5% 1/10W
R202	1-216-041-00	RES-CHIP	470 5% 1/10W	R263	1-208-776-11	METAL CHIP	560 0.5% 1/10W
R203	1-216-051-00	RES-CHIP	1.2K 5% 1/10W	R264	1-216-049-91	RES-CHIP	1K 5% 1/10W
R204	1-216-041-00	RES-CHIP	470 5% 1/10W	R265	1-216-017-91	RES-CHIP	47 5% 1/10W
R205	1-216-065-91	RES-CHIP	4.7K 5% 1/10W	R266	1-216-021-00	RES-CHIP	68 5% 1/10W
R207	1-216-041-00	RES-CHIP	470 5% 1/10W	R268	1-208-800-11	METAL CHIP	5.6K 0.5% 1/10W
R208	1-216-295-91	SHORT	0	R269	1-208-776-11	METAL CHIP	560 0.5% 1/10W
R209	1-216-049-91	RES-CHIP	1K 5% 1/10W	R270	1-216-049-91	RES-CHIP	1K 5% 1/10W
R210	1-216-049-91	RES-CHIP	1K 5% 1/10W	R272	1-216-033-00	RES-CHIP	220 5% 1/10W
R211	1-216-041-00	RES-CHIP	470 5% 1/10W	R273	1-216-033-00	RES-CHIP	220 5% 1/10W
R212	1-208-776-11	METAL CHIP	560 0.5% 1/10W	R274	1-216-073-00	RES-CHIP	10K 5% 1/10W
R213	1-208-776-11	METAL CHIP	560 0.5% 1/10W	R275	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
R214	1-216-304-11	RES-CHIP	3.3 5% 1/10W	R276	1-216-097-91	RES-CHIP	100K 5% 1/10W
R215	1-216-025-91	RES-CHIP	100 5% 1/10W	R277	1-216-089-91	RES-CHIP	47K 5% 1/10W
R216	1-216-025-91	RES-CHIP	100 5% 1/10W	R278	1-216-073-00	RES-CHIP	10K 5% 1/10W
R217	1-216-057-00	RES-CHIP	2.2K 5% 1/10W	R279	1-216-129-00	RES-CHIP	2.2M 5% 1/10W
R218	1-216-049-91	RES-CHIP	1K 5% 1/10W	R280	1-216-073-00	RES-CHIP	10K 5% 1/10W
R219	1-216-304-11	RES-CHIP	3.3 5% 1/10W	R281	1-216-025-91	RES-CHIP	100 5% 1/10W
R222	1-208-800-11	METAL CHIP	5.6K 0.5% 1/10W	R282	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
R223	1-208-800-11	METAL CHIP	5.6K 0.5% 1/10W				



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R283	1-216-065-91	RES-CHIP	4.7K 5% 1/10W	R341	1-216-040-00	RES-CHIP	430 5% 1/10W
R284	1-216-025-91	RES-CHIP	100 5% 1/10W	R342	1-208-783-11	METAL CHIP	1.1K 0.5% 1/10W
R285	1-216-049-91	RES-CHIP	1K 5% 1/10W	R343	1-216-085-00	RES-CHIP	33K 5% 1/10W
R286	1-216-025-91	RES-CHIP	100 5% 1/10W	R344	1-216-025-91	RES-CHIP	100 5% 1/10W
R287	1-216-025-91	RES-CHIP	100 5% 1/10W	R345	1-216-049-91	RES-CHIP	1K 5% 1/10W
R288	1-216-295-91	SHORT	0	R346	1-216-089-91	RES-CHIP	47K 5% 1/10W
R289	1-216-049-91	RES-CHIP	1K 5% 1/10W	R347	1-216-073-00	RES-CHIP	10K 5% 1/10W
R290	1-216-049-91	RES-CHIP	1K 5% 1/10W	R348	1-216-079-00	RES-CHIP	18K 5% 1/10W
R291	1-216-049-91	RES-CHIP	1K 5% 1/10W	R349	1-216-077-91	RES-CHIP	15K 5% 1/10W
R292	1-216-049-91	RES-CHIP	1K 5% 1/10W	R350	1-216-073-00	RES-CHIP	10K 5% 1/10W
R293	1-216-049-91	RES-CHIP	1K 5% 1/10W	R351	1-216-041-00	RES-CHIP	470 5% 1/10W
R294	1-216-049-91	RES-CHIP	1K 5% 1/10W	R352	1-216-081-00	RES-CHIP	22K 5% 1/10W
R295	1-216-295-91	SHORT	0	R353	1-216-113-00	RES-CHIP	470K 5% 1/10W
R296	1-216-033-00	RES-CHIP	220 5% 1/10W	R354	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
R297	1-216-033-00	RES-CHIP	220 5% 1/10W	R360	1-216-051-00	RES-CHIP	1.2K 5% 1/10W
R298	1-216-033-00	RES-CHIP	220 5% 1/10W	R361	1-208-803-11	METAL CHIP	7.5K 0.5% 1/10W
R299	1-216-033-00	RES-CHIP	220 5% 1/10W	R362	1-208-774-11	METAL CHIP	470 0.5% 1/10W
R300	1-216-033-00	RES-CHIP	220 5% 1/10W	R363	1-208-798-11	METAL CHIP	4.7K 0.5% 1/10W
R301	1-216-033-00	RES-CHIP	220 5% 1/10W	R401	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
R302	1-216-049-91	RES-CHIP	1K 5% 1/10W	R402	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
R303	1-216-133-00	RES-CHIP	3.3M 5% 1/10W	R403	1-216-121-91	RES-CHIP	1M 5% 1/10W
R304	1-216-059-00	RES-CHIP	2.7K 5% 1/10W	R404	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
R305	1-216-066-00	RES-CHIP	5.1K 5% 1/10W	R405	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
R306	1-208-774-11	METAL CHIP	470 0.5% 1/10W	R406	1-216-035-00	RES-CHIP	270 5% 1/10W
R307	1-208-810-11	METAL CHIP	15K 0.5% 1/10W	R407	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
R308	1-216-109-00	RES-CHIP	330K 5% 1/10W	R408	1-216-025-91	RES-CHIP	100 5% 1/10W
R309	1-216-061-00	RES-CHIP	3.3K 5% 1/10W	R409	1-216-025-91	RES-CHIP	100 5% 1/10W
R310	1-216-033-00	RES-CHIP	220 5% 1/10W	R410	1-216-035-00	RES-CHIP	270 5% 1/10W
R311	1-216-025-91	RES-CHIP	100 5% 1/10W	R411	1-216-025-91	RES-CHIP	100 5% 1/10W
R312	1-216-025-91	RES-CHIP	100 5% 1/10W	R412	1-216-025-91	RES-CHIP	100 5% 1/10W
R313	1-216-113-00	RES-CHIP	470K 5% 1/10W	R413	1-216-025-91	RES-CHIP	100 5% 1/10W
R314	1-216-025-91	RES-CHIP	100 5% 1/10W	R414	1-216-081-00	RES-CHIP	22K 5% 1/10W
R315	1-216-043-91	RES-CHIP	560 5% 1/10W	R415	1-216-073-00	RES-CHIP	10K 5% 1/10W
R316	1-216-049-91	RES-CHIP	1K 5% 1/10W	R418	1-216-025-91	RES-CHIP	100 5% 1/10W
R317	1-216-059-00	RES-CHIP	2.7K 5% 1/10W	R419	1-216-025-91	RES-CHIP	100 5% 1/10W
R318	1-216-077-91	RES-CHIP	15K 5% 1/10W	R420	1-216-025-91	RES-CHIP	100 5% 1/10W
R319	1-216-655-11	METAL CHIP	1.5K 0.5% 1/10W	R421	1-216-025-91	RES-CHIP	100 5% 1/10W
R321	1-216-033-00	RES-CHIP	220 5% 1/10W	R422	1-216-025-91	RES-CHIP	100 5% 1/10W
R322	1-216-073-00	RES-CHIP	10K 5% 1/10W	R423	1-216-089-91	RES-CHIP	47K 5% 1/10W
R323	1-216-017-91	RES-CHIP	47 5% 1/10W	R424	1-215-865-11	METAL OXIDE	220 5% 1W
R324	1-216-049-91	RES-CHIP	1K 5% 1/10W	R425	1-216-025-91	RES-CHIP	100 5% 1/10W
R325	1-216-073-00	RES-CHIP	10K 5% 1/10W	R426	1-216-073-00	RES-CHIP	10K 5% 1/10W
R326	1-216-073-00	RES-CHIP	10K 5% 1/10W	R428	1-216-073-00	RES-CHIP	10K 5% 1/10W
R327	1-216-073-00	RES-CHIP	10K 5% 1/10W	R429	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
R328	1-216-049-91	RES-CHIP	1K 5% 1/10W	R430	1-216-041-00	RES-CHIP	470 5% 1/10W
R329	1-216-073-00	RES-CHIP	10K 5% 1/10W	R431	1-216-073-00	RES-CHIP	10K 5% 1/10W
R330	1-216-073-00	RES-CHIP	10K 5% 1/10W	R432	1-216-073-00	RES-CHIP	10K 5% 1/10W
R331	1-216-065-91	RES-CHIP	4.7K 5% 1/10W	R433	1-216-041-00	RES-CHIP	470 5% 1/10W
R332	1-216-073-00	RES-CHIP	10K 5% 1/10W	R434	1-216-097-91	RES-CHIP	100K 5% 1/10W
R333	1-216-049-91	RES-CHIP	1K 5% 1/10W	R435	1-216-073-00	RES-CHIP	10K 5% 1/10W
R334	1-216-113-00	RES-CHIP	470K 5% 1/10W	R437	1-216-033-00	RES-CHIP	220 5% 1/10W
R335	1-216-041-00	RES-CHIP	470 5% 1/10W	R438	1-216-073-00	RES-CHIP	10K 5% 1/10W
R336	1-216-049-91	RES-CHIP	1K 5% 1/10W	R439	1-216-041-00	RES-CHIP	470 5% 1/10W
R337	1-216-037-00	RES-CHIP	330 5% 1/10W	R440	1-216-033-00	RES-CHIP	220 5% 1/10W
R338	1-216-075-00	RES-CHIP	12K 5% 1/10W	R441	1-216-049-91	RES-CHIP	1K 5% 1/10W
R339	1-216-049-91	RES-CHIP	1K 5% 1/10W	R442	1-216-073-00	RES-CHIP	10K 5% 1/10W
R340	1-216-041-00	RES-CHIP	470 5% 1/10W	R443	1-216-065-91	RES-CHIP	4.7K 5% 1/10W

KP-48V85/53V85/61V85

RM-Y905 RM-Y905 RM-Y905

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<u>REF. NO.</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>REMARK</u>	<u>REF. NO.</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>REMARK</u>
R444	1-216-077-91	RES-CHIP	15K 5% 1/10W	R831	1-216-049-91	RES-CHIP	1K 5% 1/10W
R446	1-216-085-00	RES-CHIP	33K 5% 1/10W	R832	1-216-073-00	RES-CHIP	10K 5% 1/10W
R447	1-216-081-00	RES-CHIP	22K 5% 1/10W	R833	1-216-049-91	RES-CHIP	1K 5% 1/10W
R448	1-216-081-00	RES-CHIP	22K 5% 1/10W	R834	1-216-049-91	RES-CHIP	1K 5% 1/10W
R449	1-216-049-91	RES-CHIP	1K 5% 1/10W	R836	1-216-049-91	RES-CHIP	1K 5% 1/10W
R450	1-216-689-11	RES-CHIP	39K 5% 1/10W	R838	1-216-025-91	RES-CHIP	100 5% 1/10W
R451	1-216-073-00	RES-CHIP	10K 5% 1/10W	R839	1-216-025-91	RES-CHIP	100 5% 1/10W
R452	1-216-083-00	RES-CHIP	27K 5% 1/10W	R840	1-216-025-91	RES-CHIP	100 5% 1/10W
R453	1-216-049-91	RES-CHIP	1K 5% 1/10W	R842	1-216-025-91	RES-CHIP	100 5% 1/10W
R454	1-216-049-91	RES-CHIP	1K 5% 1/10W	R843	1-216-025-91	RES-CHIP	100 5% 1/10W
R455	1-216-083-00	RES-CHIP	27K 5% 1/10W	R844	1-216-025-91	RES-CHIP	100 5% 1/10W
R456	1-216-073-00	RES-CHIP	10K 5% 1/10W	R846	1-216-025-91	RES-CHIP	100 5% 1/10W
R457	1-216-073-00	RES-CHIP	10K 5% 1/10W	R847	1-216-033-00	RES-CHIP	220 5% 1/10W
R458	1-249-389-11	CARBON	4.7 5% 1/4W	R848	1-216-025-91	RES-CHIP	100 5% 1/10W
R459	1-249-389-11	CARBON	4.7 5% 1/4W	R849	1-216-041-00	RES-CHIP	470 5% 1/10W
R460	1-216-089-91	RES-CHIP	47K 5% 1/10W	R850	1-216-041-00	RES-CHIP	470 5% 1/10W
R461	1-216-025-91	RES-CHIP	100 5% 1/10W	R851	1-216-041-00	RES-CHIP	470 5% 1/10W
R462	1-216-075-00	RES-CHIP	12K 5% 1/10W	R852	1-208-814-91	METAL CHIP	22K 0.5% 1/10W
R463	1-216-089-91	RES-CHIP	47K 5% 1/10W	R853	1-216-025-91	RES-CHIP	100 5% 1/10W
R464	1-216-089-91	RES-CHIP	47K 5% 1/10W	R854	1-216-025-91	RES-CHIP	100 5% 1/10W
R465	1-216-121-91	RES-CHIP	1M 5% 1/10W	R855	1-216-025-91	RES-CHIP	100 5% 1/10W
R466	1-216-079-00	RES-CHIP	18K 5% 1/10W	R856	1-216-033-00	RES-CHIP	220 5% 1/10W
R467	1-216-077-91	RES-CHIP	15K 5% 1/10W	R857	1-216-025-91	RES-CHIP	100 5% 1/10W
R468	1-216-295-91	SHORT	0	R858	1-216-073-00	RES-CHIP	10K 5% 1/10W
R471	1-414-551-11	FERRITE	0μH	R859	1-216-081-00	RES-CHIP	22K 5% 1/10W
R472	1-216-049-91	RES-CHIP	1K 5% 1/10W	R860	1-216-025-91	RES-CHIP	100 5% 1/10W
R473	1-216-049-91	RES-CHIP	1K 5% 1/10W	R861	1-216-073-00	RES-CHIP	10K 5% 1/10W
R474	1-216-049-91	RES-CHIP	1K 5% 1/10W	R862	1-216-073-00	RES-CHIP	10K 5% 1/10W
R475	1-208-817-11	METAL CHIP	30K 0.5% 1/10W	R863	1-216-025-91	RES-CHIP	100 5% 1/10W
R476	1-208-817-11	METAL CHIP	30K 0.5% 1/10W	R864	1-208-801-11	METAL CHIP	6.2K 0.5% 1/10W
R477	1-216-089-91	RES-CHIP	47K 5% 1/10W	R865	1-216-025-91	RES-CHIP	100 5% 1/10W
R478	1-216-089-91	RES-CHIP	47K 5% 1/10W	R866	1-216-025-91	RES-CHIP	100 5% 1/10W
R801	1-500-245-11	FERRITE	0μH	R867	1-216-025-91	RES-CHIP	100 5% 1/10W
R802	1-500-245-11	FERRITE	0μH	R868	1-216-025-91	RES-CHIP	100 5% 1/10W
R803	1-500-245-11	FERRITE	0μH	R869	1-216-025-91	RES-CHIP	100 5% 1/10W
R804	1-500-245-11	FERRITE	0μH	R870	1-216-073-00	RES-CHIP	10K 5% 1/10W
R805	1-216-065-91	RES-CHIP	4.7K 5% 1/10W	R871	1-216-025-91	RES-CHIP	100 5% 1/10W
R806	1-216-113-00	RES-CHIP	470K 5% 1/10W	R872	1-216-025-91	RES-CHIP	100 5% 1/10W
R808	1-216-065-91	RES-CHIP	4.7K 5% 1/10W	R873	1-216-025-91	RES-CHIP	100 5% 1/10W
R810	1-216-295-91	SHORT	0	R874	1-216-025-91	RES-CHIP	100 5% 1/10W
R811	1-216-109-00	RES-CHIP	330K 5% 1/10W	R875	1-216-295-91	SHORT	0
R813	1-216-117-00	RES-CHIP	680K 5% 1/10W	R876	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
R814	1-216-117-00	RES-CHIP	680K 5% 1/10W	R877	1-208-816-11	METAL CHIP	27K 0.5% 1/10W
R815	1-216-025-91	RES-CHIP	100 5% 1/10W	R878	1-216-049-91	RES-CHIP	1K 5% 1/10W
R816	1-216-049-91	RES-CHIP	1K 5% 1/10W	R879	1-216-295-91	SHORT	0
R817	1-216-025-91	RES-CHIP	100 5% 1/10W	R880	1-216-049-91	RES-CHIP	1K 5% 1/10W
R818	1-216-025-91	RES-CHIP	100 5% 1/10W	R881	1-216-025-91	RES-CHIP	100 5% 1/10W
R819	1-216-025-91	RES-CHIP	100 5% 1/10W	R882	1-216-033-00	RES-CHIP	220 5% 1/10W
R820	1-216-295-91	SHORT	0	R883	1-216-033-00	RES-CHIP	220 5% 1/10W
R821	1-216-295-91	SHORT	0	R884	1-216-049-91	RES-CHIP	1K 5% 1/10W
R822	1-216-295-91	SHORT	0	R885	1-216-025-91	RES-CHIP	100 5% 1/10W
R823	1-216-295-91	SHORT	0	R887	1-414-551-11	FERRITE	0μH
R824	1-216-025-91	RES-CHIP	100 5% 1/10W	R888	1-216-025-91	RES-CHIP	100 5% 1/10W
R825	1-216-025-91	RES-CHIP	100 5% 1/10W	R891	1-216-073-00	RES-CHIP	10K 5% 1/10W
R828	1-216-049-91	RES-CHIP	1K 5% 1/10W	R892	1-208-802-11	METAL CHIP	6.8K 0.5% 1/10W
R829	1-216-073-00	RES-CHIP	10K 5% 1/10W	R893	1-216-073-00	RES-CHIP	10K 5% 1/10W
R830	1-216-041-00	RES-CHIP	470 5% 1/10W	R894	1-216-033-00	RES-CHIP	220 5% 1/10W



<u>REF. NO.</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>REMARK</u>	<u>REF. NO.</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>REMARK</u>
R895	1-216-025-91	RES-CHIP	100 5% 1/10W	R965	1-208-806-11	METAL CHIP	10K 0.5% 1/10W
R896	1-216-121-91	RES-CHIP	1M 5% 1/10W	R966	1-208-806-11	METAL CHIP	10K 0.5% 1/10W
R897	1-216-049-91	RES-CHIP	1K 5% 1/10W	R968	1-208-806-11	METAL CHIP	10K 0.5% 1/10W
R898	1-216-049-91	RES-CHIP	1K 5% 1/10W	R970	1-208-806-11	METAL CHIP	10K 0.5% 1/10W
R899	1-216-033-00	RES-CHIP	220 5% 1/10W	R972	1-208-806-11	METAL CHIP	10K 0.5% 1/10W
R900	1-216-025-91	RES-CHIP	100 5% 1/10W	R974	1-208-806-11	METAL CHIP	10K 0.5% 1/10W
R901	1-216-033-00	RES-CHIP	220 5% 1/10W	R976	1-208-806-11	METAL CHIP	10K 0.5% 1/10W
R902	1-216-033-00	RES-CHIP	220 5% 1/10W	R978	1-208-810-11	METAL CHIP	15K 0.5% 1/10W
R903	1-216-025-91	RES-CHIP	100 5% 1/10W	R979	1-208-817-11	METAL CHIP	30K 0.5% 1/10W
R904	1-216-033-00	RES-CHIP	220 5% 1/10W	R980	1-208-817-11	METAL CHIP	30K 0.5% 1/10W
R905	1-216-025-91	RES-CHIP	100 5% 1/10W	R981	1-208-817-11	METAL CHIP	30K 0.5% 1/10W
R906	1-216-025-91	RES-CHIP	100 5% 1/10W	R982	1-208-817-11	METAL CHIP	30K 0.5% 1/10W
R907	1-216-025-91	RES-CHIP	100 5% 1/10W	R983	1-208-817-11	METAL CHIP	30K 0.5% 1/10W
R908	1-216-025-91	RES-CHIP	100 5% 1/10W	R985	1-208-810-11	METAL CHIP	15K 0.5% 1/10W
R909	1-216-025-91	RES-CHIP	100 5% 1/10W	R987	1-208-817-11	METAL CHIP	30K 0.5% 1/10W
R910	1-216-025-91	RES-CHIP	100 5% 1/10W	R989	1-208-817-11	METAL CHIP	30K 0.5% 1/10W
R911	1-216-025-91	RES-CHIP	100 5% 1/10W	R991	1-208-817-11	METAL CHIP	30K 0.5% 1/10W
R912	1-216-049-91	RES-CHIP	1K 5% 1/10W	R993	1-208-817-11	METAL CHIP	30K 0.5% 1/10W
R913	1-216-025-91	RES-CHIP	100 5% 1/10W	R994	1-208-817-11	METAL CHIP	30K 0.5% 1/10W
R914	1-216-049-91	RES-CHIP	1K 5% 1/10W	R996	1-208-776-11	METAL CHIP	560 0.5% 1/10W
R915	1-216-049-91	RES-CHIP	1K 5% 1/10W	R997	1-208-776-11	METAL CHIP	560 0.5% 1/10W
R916	1-216-049-91	RES-CHIP	1K 5% 1/10W	R998	1-208-776-11	METAL CHIP	560 0.5% 1/10W
R917	1-216-025-91	RES-CHIP	100 5% 1/10W	R999	1-208-776-11	METAL CHIP	560 0.5% 1/10W
R918	1-208-806-11	METAL CHIP	10K 0.5% 1/10W	R1000	1-208-776-11	METAL CHIP	560 0.5% 1/10W
R919	1-216-061-00	RES-CHIP	3.3K 5% 1/10W	R1001	1-208-776-11	METAL CHIP	560 0.5% 1/10W
R920	1-216-057-00	RES-CHIP	2.2K 5% 1/10W	R1002	1-208-810-11	METAL CHIP	15K 0.5% 1/10W
R922	1-216-049-91	RES-CHIP	1K 5% 1/10W	R1003	1-208-818-11	METAL CHIP	33K 0.5% 1/10W
R923	1-216-043-91	RES-CHIP	560 5% 1/10W	R1010	1-216-295-91	SHORT	0
R924	1-216-053-00	RES-CHIP	1.5K 5% 1/10W	R1011	1-216-295-91	SHORT	0
R925	1-216-043-91	RES-CHIP	560 5% 1/10W	R1012	1-216-295-91	SHORT	0
R926	1-216-053-00	RES-CHIP	1.5K 5% 1/10W	R1013	1-216-295-91	SHORT	0
R928	1-216-057-00	RES-CHIP	2.2K 5% 1/10W	R1014	1-216-295-91	SHORT	0
R929	1-216-049-91	RES-CHIP	1K 5% 1/10W	R1015	1-216-295-91	SHORT	0
R932	1-208-792-11	METAL CHIP	2.7K 0.5% 1/10W	R1401	1-216-025-91	RES-CHIP	100 5% 1/10W
R935	1-216-025-91	RES-CHIP	100 5% 1/10W	R1402	1-216-295-91	SHORT	0
R936	1-216-025-91	RES-CHIP	100 5% 1/10W	R1403	1-216-049-91	RES-CHIP	1K 5% 1/10W
R937	1-216-025-91	RES-CHIP	100 5% 1/10W	R1404	1-216-049-91	RES-CHIP	1K 5% 1/10W
R938	1-208-766-11	METAL CHIP	220 0.5% 1/10W	R1405	1-216-295-91	SHORT	0
R939	1-208-766-11	METAL CHIP	220 0.5% 1/10W	R1406	1-216-061-00	RES-CHIP	3.3K 5% 1/10W
R941	1-216-061-00	RES-CHIP	3.3K 5% 1/10W	R1407	1-216-049-91	RES-CHIP	1K 5% 1/10W
R942	1-216-065-91	RES-CHIP	4.7K 5% 1/10W	R1408	1-216-025-91	RES-CHIP	100 5% 1/10W
R943	1-216-041-00	RES-CHIP	470 5% 1/10W	R1409	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
R945	1-216-057-00	RES-CHIP	2.2K 5% 1/10W	R1410	1-216-025-91	RES-CHIP	100 5% 1/10W
R950	1-216-043-91	RES-CHIP	560 5% 1/10W	R1411	1-216-025-91	RES-CHIP	100 5% 1/10W
R951	1-216-053-00	RES-CHIP	1.5K 5% 1/10W	R1412	1-216-025-91	RES-CHIP	100 5% 1/10W
R952	1-216-049-91	RES-CHIP	1K 5% 1/10W	R1413	1-216-025-91	RES-CHIP	100 5% 1/10W
R953	1-216-025-91	RES-CHIP	100 5% 1/10W	R1414	1-216-025-91	RES-CHIP	100 5% 1/10W
R954	1-216-025-91	RES-CHIP	100 5% 1/10W	R1415	1-216-025-91	RES-CHIP	100 5% 1/10W
R955	1-216-025-91	RES-CHIP	100 5% 1/10W	R1416	1-216-025-91	RES-CHIP	100 5% 1/10W
R956	1-216-025-91	RES-CHIP	100 5% 1/10W	R1417	1-216-025-91	RES-CHIP	100 5% 1/10W
R957	1-216-025-91	RES-CHIP	100 5% 1/10W	R1418	1-216-025-91	RES-CHIP	100 5% 1/10W
R958	1-216-025-91	RES-CHIP	100 5% 1/10W	R1419	1-216-033-00	RES-CHIP	220 5% 1/10W
R959	1-208-806-11	METAL CHIP	10K 0.5% 1/10W	R1420	1-216-045-00	RES-CHIP	680 5% 1/10W
R960	1-208-806-11	METAL CHIP	10K 0.5% 1/10W	R1421	1-216-025-91	RES-CHIP	100 5% 1/10W
R961	1-208-806-11	METAL CHIP	10K 0.5% 1/10W	R1422	1-216-025-91	RES-CHIP	100 5% 1/10W
R962	1-208-806-11	METAL CHIP	10K 0.5% 1/10W	R1423	1-216-049-91	RES-CHIP	1K 5% 1/10W
R963	1-208-806-11	METAL CHIP	10K 0.5% 1/10W				
R964	1-208-806-11	METAL CHIP	10K 0.5% 1/10W				

KP-48V85/53V85/61V85

RM-Y905 RM-Y905 RM-Y905

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<u>REF. NO.</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>REMARK</u>	<u>REF. NO.</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>REMARK</u>				
R1424	1-216-061-00	RES-CHIP	3.3K	5%	1/10W	R1485	1-216-295-91	SHORT	0		
R1425	1-216-009-91	RES-CHIP	22	5%	1/10W	R1486	1-208-782-11	METAL CHIP	1K	0.5%	1/10W
R1427	1-216-109-00	RES-CHIP	330K	5%	1/10W	R1487	1-216-025-91	RES-CHIP	100	5%	1/10W
R1428	1-216-057-00	RES-CHIP	2.2K	5%	1/10W	R1489	1-216-075-00	RES-CHIP	12K	5%	1/10W
R1429	1-208-774-11	METAL CHIP	470	0.5%	1/10W	R1490	1-216-081-00	RES-CHIP	22K	5%	1/10W
R1430	1-216-033-00	RES-CHIP	220	5%	1/10W	R1492	1-216-009-91	RES-CHIP	22	5%	1/10W
R1431	1-216-045-00	RES-CHIP	680	5%	1/10W	R1493	1-216-037-00	RES-CHIP	330	5%	1/10W
R1432	1-216-071-00	RES-CHIP	8.2K	5%	1/10W	R1494	1-216-025-91	RES-CHIP	100	5%	1/10W
R1433	1-216-077-91	RES-CHIP	15K	5%	1/10W	R1495	1-208-794-11	METAL CHIP	3.3K	0.5%	1/10W
R1434	1-216-025-91	RES-CHIP	100	5%	1/10W	R1496	1-216-049-91	RES-CHIP	1K	5%	1/10W
R1435	1-216-025-91	RES-CHIP	100	5%	1/10W	R1497	1-208-774-11	METAL CHIP	470	0.5%	1/10W
R1436	1-216-109-00	RES-CHIP	330K	5%	1/10W	R1498	1-216-053-00	RES-CHIP	1.5K	5%	1/10W
R1437	1-216-073-00	RES-CHIP	10K	5%	1/10W	R1499	1-208-780-11	METAL CHIP	820	0.5%	1/10W
R1439	1-216-053-00	RES-CHIP	1.5K	5%	1/10W	R1501	1-216-073-00	RES-CHIP	10K	5%	1/10W
R1440	1-216-025-91	RES-CHIP	100	5%	1/10W	R1504	1-216-025-91	RES-CHIP	100	5%	1/10W
R1441	1-216-025-91	RES-CHIP	100	5%	1/10W	R1505	1-216-049-91	RES-CHIP	1K	5%	1/10W
R1442	1-216-025-91	RES-CHIP	100	5%	1/10W	R1506	1-216-049-91	RES-CHIP	1K	5%	1/10W
R1443	1-216-025-91	RES-CHIP	100	5%	1/10W	R1507	1-216-009-91	RES-CHIP	22	5%	1/10W
R1444	1-216-025-91	RES-CHIP	100	5%	1/10W	R1508	1-216-041-00	RES-CHIP	470	5%	1/10W
R1445	1-216-025-91	RES-CHIP	100	5%	1/10W	R1509	1-208-782-11	METAL CHIP	1K	0.5%	1/10W
R1446	1-216-025-91	RES-CHIP	100	5%	1/10W	R1510	1-216-049-91	RES-CHIP	1K	5%	1/10W
R1447	1-208-774-11	METAL CHIP	470	0.5%	1/10W	R1511	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R1448	1-216-025-91	RES-CHIP	100	5%	1/10W	R1512	1-216-075-00	RES-CHIP	12K	5%	1/10W
R1449	1-216-025-91	RES-CHIP	100	5%	1/10W	R1513	1-216-081-00	RES-CHIP	22K	5%	1/10W
R1450	1-216-071-00	RES-CHIP	8.2K	5%	1/10W	R1514	1-216-025-91	RES-CHIP	100	5%	1/10W
R1451	1-216-025-91	RES-CHIP	100	5%	1/10W	R1515	1-208-806-11	METAL CHIP	10K	0.5%	1/10W
R1452	1-216-025-91	RES-CHIP	100	5%	1/10W	R1516	1-208-774-11	METAL CHIP	470	0.5%	1/10W
R1453	1-216-025-91	RES-CHIP	100	5%	1/10W	R1517	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R1454	1-216-077-91	RES-CHIP	15K	5%	1/10W	R1518	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R1455	1-216-025-91	RES-CHIP	100	5%	1/10W	R1519	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R1456	1-216-025-91	RES-CHIP	100	5%	1/10W	R1520	1-216-049-91	RES-CHIP	1K	5%	1/10W
R1457	1-216-073-00	RES-CHIP	10K	5%	1/10W	R1522	1-208-755-11	METAL CHIP	75	0.5%	1/10W
R1458	1-216-053-00	RES-CHIP	1.5K	5%	1/10W	R1523	1-216-061-00	RES-CHIP	3.3K	5%	1/10W
R1459	1-216-025-91	RES-CHIP	100	5%	1/10W	R1525	1-216-073-00	RES-CHIP	10K	5%	1/10W
R1460	1-216-025-91	RES-CHIP	100	5%	1/10W	R1527	1-216-051-00	RES-CHIP	1.2K	5%	1/10W
R1461	1-216-025-91	RES-CHIP	100	5%	1/10W	R1528	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R1462	1-216-025-91	RES-CHIP	100	5%	1/10W	R1529	1-216-025-91	RES-CHIP	100	5%	1/10W
R1463	1-216-025-91	RES-CHIP	100	5%	1/10W	R1530	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R1464	1-216-025-91	RES-CHIP	100	5%	1/10W	R1531	1-216-073-00	RES-CHIP	10K	5%	1/10W
R1465	1-216-025-91	RES-CHIP	100	5%	1/10W	R1532	1-216-051-00	RES-CHIP	1.2K	5%	1/10W
R1466	1-216-025-91	RES-CHIP	100	5%	1/10W	R1533	1-216-051-00	RES-CHIP	1.2K	5%	1/10W
R1467	1-216-037-00	RES-CHIP	330	5%	1/10W	R1534	1-216-025-91	RES-CHIP	100	5%	1/10W
R1468	1-216-295-91	SHORT	0			R1535	1-216-025-91	RES-CHIP	100	5%	1/10W
R1470	1-216-009-91	RES-CHIP	22	5%	1/10W	R1536	1-216-073-00	RES-CHIP	10K	5%	1/10W
R1471	1-216-025-91	RES-CHIP	100	5%	1/10W	R1537	1-208-801-11	METAL CHIP	6.2K	0.5%	1/10W
R1472	1-208-774-11	METAL CHIP	470	0.5%	1/10W	R1540	1-216-053-00	RES-CHIP	1.5K	5%	1/10W
R1473	1-216-073-00	RES-CHIP	10K	5%	1/10W	R1541	1-216-073-00	RES-CHIP	10K	5%	1/10W
R1474	1-216-033-00	RES-CHIP	220	5%	1/10W	R1542	1-216-025-91	RES-CHIP	100	5%	1/10W
R1475	1-216-295-91	SHORT	0			R1543	1-216-025-91	RES-CHIP	100	5%	1/10W
R1476	1-208-780-11	METAL CHIP	820	0.5%	1/10W	R1544	1-216-025-91	RES-CHIP	100	5%	1/10W
R1477	1-216-295-91	SHORT	0			R1545	1-216-073-00	RES-CHIP	10K	5%	1/10W
R1479	1-216-025-91	RES-CHIP	100	5%	1/10W	R1547	1-216-073-00	RES-CHIP	10K	5%	1/10W
R1480	1-216-025-91	RES-CHIP	100	5%	1/10W	R1601	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R1481	1-216-025-91	RES-CHIP	100	5%	1/10W	R1603	1-216-049-91	RES-CHIP	1K	5%	1/10W
R1482	1-216-041-00	RES-CHIP	470	5%	1/10W	R1604	1-216-049-91	RES-CHIP	1K	5%	1/10W
R1483	1-216-009-91	RES-CHIP	22	5%	1/10W	R1605	1-208-802-11	METAL CHIP	6.8K	0.5%	1/10W
R1484	1-216-009-91	RES-CHIP	22	5%	1/10W	R1607	1-208-806-11	METAL CHIP	10K	0.5%	1/10W

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Les composants identifiés par une trame et une marque sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

The components identified by shading and mark are critical for safety. Replace only with part number specified.

- The components identified by in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R1609	1-216-025-91	RES-CHIP	100 5% 1/10W	C513	1-126-933-11	ELECT	100μF 20% 16V
R1610	1-216-025-91	RES-CHIP	100 5% 1/10W	C514	1-130-495-00	MYLAR	0.1μF 5% 50V
R1614	1-216-049-91	RES-CHIP	1K 5% 1/10W	C515	1-126-960-11	ELECT	1μF 20% 50V
R1615	1-208-802-11	METAL CHIP	6.8K 0.5% 1/10W	C516	1-126-965-11	ELECT	22μF 20% 50V
R1616	1-216-049-91	RES-CHIP	1K 5% 1/10W	C517 1-162-134-11	CERAMIC	470pF 10% 2KV	
R1617	1-216-081-00	RES-CHIP	22K 5% 1/10W	C518	1-130-487-00	MYLAR	0.022μF 5% 50V
R1618	1-216-033-00	RES-CHIP	220 5% 1/10W	C521 1-128-660-91	FILM	0.039μF 3% 630V	
R1619	1-216-057-00	RES-CHIP	2.2K 5% 1/10W	C522 1-117-658-11	FILM	14000pF 3% 1.2KV	
R1621	1-208-806-11	METAL CHIP	10K 0.5% 1/10W	C525	1-136-479-11	FILM	0.001μF 5% 50V
R1622	1-216-033-00	RES-CHIP	220 5% 1/10W	C526	1-130-475-00	MYLAR	0.0022μF 5% 50V
R1623	1-216-025-91	RES-CHIP	100 5% 1/10W	C527	1-129-702-00	FILM	0.001μF 5% 630V
R1624	1-216-025-91	RES-CHIP	100 5% 1/10W	C529	1-130-495-00	MYLAR	0.1μF 5% 50V
R1627	1-216-061-00	RES-CHIP	3.3K 5% 1/10W	C531	1-117-673-11	FILM	1.5μF 5% 250V
				C533	1-106-359-00	MYLAR	0.0047μF 5% 100V
				C534	1-162-116-00	CERAMIC	680pF 10% 2KV
RY401	1-755-028-11	RELAY		C535	1-162-116-00	CERAMIC	680pF 10% 2KV
RY402	1-755-028-11	RELAY		C536	1-126-965-11	ELECT	22μF 20% 50V
				C537	1-102-244-00	CERAMIC	220pF 10% 500V
				C538	1-106-359-00	MYLAR	0.0047μF 5% 100V
				C540	1-107-645-11	ELECT	22μF 20% 160V
				C542	1-102-228-00	CERAMIC	470pF 10% 500V
				C543	1-117-813-11	FILM	0.75μF 5% 250V
TU151	8-598-431-00	TUNER, FSS BTF-WA411		C544	1-110-626-11	ELECT	330μF 20% 160V
TU152	8-598-430-00	TUNER, FSS BTF-FA401		C545	1-162-114-00	CERAMIC	0.0047μF 2KV
				C546	1-107-649-11	ELECT	2.2μF 20% 250V
				C547	1-126-971-11	ELECT	470μF 20% 50V
				C548	1-104-665-11	ELECT	100μF 20% 25V
X001	1-781-589-21	VIBRATOR, CRYSTAL 16MHz		C549	1-130-489-00	MYLAR	0.033μF 5% 50V
X202	1-567-505-11	OSCILLATOR, CRYSTAL 3.58MHz		C550	1-104-665-11	ELECT	100μF 20% 25V
X203	1-579-583-11	VIBRATOR, CERAMIC 503kHz		C551	1-126-971-11	ELECT	470μF 20% 50V
X401	1-781-590-21	VIBRATOR, CRYSTAL 33.8688MHz		C552	1-130-489-00	MYLAR	0.033μF 5% 50V
X801	1-767-925-21	VIBRATOR, CRYSTAL 12MHz		C553	1-126-935-11	ELECT	470μF 20% 16V
				C554	1-126-935-11	ELECT	470μF 20% 16V
X1401	1-579-583-11	VIBRATOR, CERAMIC 503kHz		C555	1-104-665-11	ELECT	100μF 20% 25V
X1402	1-567-505-11	OSCILLATOR, CRYSTAL 3.58MHz		C556	1-104-665-11	ELECT	100μF 20% 25V
X1403	1-579-583-11	VIBRATOR, CERAMIC 503kHz		C557	1-128-562-11	ELECT	47μF 20% 100V
X1404	1-567-505-11	OSCILLATOR, CRYSTAL 3.58MHz		C563	1-104-664-11	ELECT	47μF 20% 25V
				C564	1-102-129-00	CERAMIC	0.01μF 10% 50V
				C565	1-102-129-00	CERAMIC	0.01μF 10% 50V
				C566	1-104-666-11	ELECT	220μF 20% 25V
				C567	1-106-387-00	MYLAR	0.068μF 5% 200V
				C601 1-136-311-11	MYLAR	0.47μF 20% 125V	
				C602	1-129-722-00	FILM	0.047μF 5% 630V
				C604	1-113-920-11	CERAMIC	0.0022μF 20% 250V
				C606	1-113-920-11	CERAMIC	0.0022μF 20% 250V
				C607	1-136-311-11	MYLAR	0.47μF 20% 125V
				C608	1-107-670-11	ELECT	10μF 20% 400V
				C609	1-130-467-00	MYLAR	470pF 5% 50V
				C610	1-130-471-00	MYLAR	0.001μF 5% 50V
				C611	1-104-350-11	ELECT(BLOCK)	1000μF 20% 250V
				C612	1-104-350-11	ELECT(BLOCK)	1000μF 20% 250V
				C613	1-136-165-00	MYLAR	0.1μF 5% 50V
				C614	1-130-467-00	MYLAR	470pF 5% 50V
				C615	1-104-331-11	CERAMIC	0.0022μF 10% 1KV
				C616	1-130-471-00	MYLAR	0.001μF 5% 50V
				C617	1-137-605-11	MYLAR	0.01μF 10% 250V

* A-1316-437-A G BOARD, COMPLETE (53V85)

* A-1316-471-A G BOARD, COMPLETE (48V85/61V85)

1-533-223-11 HOLDER, FUSE
* 4-039-590-01 SHIELD, TRANSFORMER
4-382-854-11 SCREW (M3X10), P, SW (+)
7-682-952-09 SCREW +PSW 3X16

<CAPACITOR>

C501	1-126-959-11	ELECT	0.47μF 20% 50V
C502	1-102-002-00	CERAMIC	680pF 10% 500V
C505	1-106-383-00	MYLAR	0.047μF 10% 200V
C506	1-102-212-00	CERAMIC	820pF 10% 500V
C508	1-102-002-00	CERAMIC	680pF 10% 500V
C510	1-130-471-00	MYLAR	0.001μF 5% 50V

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<u>REF. NO.</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>REMARK</u>	<u>REF. NO.</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>REMARK</u>	
C618	1-126-965-11	ELECT	22μF 20% 50V	C1530	1-102-106-00	CERAMIC	100pF 10% 50V	
C619	1-104-664-11	ELECT	47μF 20% 16V	C1531	1-102-106-00	CERAMIC	100pF 10% 50V	
C620	1-136-175-00	MYLAR	0.68μF 5% 50V	C1533	1-126-941-11	ELECT	470μF 20% 25V	
C621	1-136-175-00	MYLAR	0.68μF 5% 50V	C1534	1-102-125-00	CERAMIC	0.0047μF 10% 50V	
C622	1-136-171-00	MYLAR	0.33μF 5% 50V	C1536	1-102-106-00	CERAMIC	100pF 10% 50V	
C623	1-136-171-00	MYLAR	0.33μF 5% 50V	C1537	1-102-125-00	CERAMIC	0.0047μF 10% 50V	
C624	1-104-330-91	CERAMIC	470pF 10% 1KV	C1538	1-126-941-11	ELECT	470μF 20% 25V	
C625	1-104-664-11	ELECT	47μF 20% 16V	C1539	1-104-665-11	ELECT	100μF 20% 25V	
C626	1-104-664-11	ELECT	47μF 20% 16V	C1540	1-126-941-11	ELECT	470μF 20% 25V	
C651	1-164-644-11	CERAMIC	330pF 10% 500V	C1541	1-102-125-00	CERAMIC	0.0047μF 10% 50V	
C654	1-126-953-11	ELECT	2200μF 20% 35V	C1542	1-102-125-00	CERAMIC	0.0047μF 10% 50V	
C655	1-126-953-11	ELECT	2200μF 20% 35V	C1543	1-102-129-00	CERAMIC	0.01μF 10% 50V	
C656	1-102-121-00	CERAMIC	0.0022μF 10% 50V	C1544	1-102-129-00	CERAMIC	0.01μF 10% 50V	
C657	1-126-768-11	ELECT	2200μF 20% 16V	C1545	1-126-933-11	ELECT	100μF 20% 16V	
C658	1-126-943-11	ELECT	2200μF 20% 25V	C1546	1-102-125-00	CERAMIC	0.0047μF 10% 50V	
C659	1-126-943-11	ELECT	2200μF 20% 25V	C1547	1-130-487-00	MYLAR	0.022μF 5% 50V	
C662	1-123-024-21	ELECT	33μF 160V	C1548	1-136-177-00	MYLAR	1μF 5% 50V	
C663	1-104-665-11	ELECT	100μF 20% 25V	C1549	1-130-471-00	MYLAR	0.001μF 5% 50V	
C664	1-107-910-11	ELECT	100μF 20% 35V	C1550	1-104-665-11	ELECT	100μF 20% 25V	
C665	1-126-934-11	ELECT	220μF 20% 10V	C1551	1-102-121-00	CERAMIC	0.0022μF 10% 50V	
C666	1-126-927-11	ELECT	2200μF 20% 10V	C1552	1-106-220-00	MYLAR	0.1μF 5% 100V	
C667	1-104-664-11	ELECT	47μF 20% 25V	C1555	1-104-665-11	ELECT	100μF 20% 25V	
C668	1-104-664-11	ELECT	47μF 20% 25V	C1556	1-104-665-11	ELECT	100μF 20% 25V	
C669	1-104-664-11	ELECT	47μF 20% 25V	C1557	1-126-969-11	ELECT	220μF 20% 50V	
C670	1-106-343-00	MYLAR	0.001μF 10% 200V	C1559	1-137-401-11	MYLAR	0.22μF 5% 100V	
C671	1-106-343-00	MYLAR	0.001μF 10% 200V	C1560	1-126-942-61	ELECT	1000μF 20% 25V	
C672	1-104-664-11	ELECT	47μF 20% 25V	C1561	1-102-121-00	CERAMIC	0.0022μF 10% 50V	
C673	1-126-960-11	ELECT	1μF 20% 50V	C1562	1-102-125-00	CERAMIC	0.0047μF 10% 50V	
C674	1-104-664-11	ELECT	47μF 20% 25V	C1563	1-137-370-11	MYLAR	0.01μF 5% 50V	
C676	1-126-940-11	ELECT	330μF 20% 25V	C1566	1-137-370-11	MYLAR	0.01μF 5% 50V	
C678	1-104-665-11	ELECT	100μF 20% 25V	C1570	1-130-471-00	MYLAR	0.001μF 5% 50V	
C679	1-104-664-11	ELECT	47μF 20% 25V	C1571	1-102-074-00	CERAMIC	0.001μF 10% 50V	
C680	1-128-551-11	ELECT	22μF 20% 25V	C1572	1-102-074-00	CERAMIC	0.001μF 10% 50V	
C1501	1-130-495-00	MYLAR	0.1μF 5% 50V	<CONNECTOR>				
C1502	1-126-941-11	ELECT	470μF 20% 25V	CN501	* 1-779-890-11	CONNECTOR, BOARD TO BOARD	10P	
C1504	1-102-106-00	CERAMIC	100pF 10% 50V	CN502	* 1-506-371-00	PIN, CONNECTOR	2P	
C1505	1-104-664-11	ELECT	47μF 20% 25V	CN503	* 1-564-513-11	PLUG, CONNECTOR	10P	
C1506	1-102-106-00	CERAMIC	100pF 10% 50V	CN504	* 1-580-689-11	PIN, CONNECTOR (PC BOARD)	4P	
C1507	1-126-942-61	ELECT	1000μF 20% 25V	CN505	* 1-580-689-11	PIN, CONNECTOR (PC BOARD)	4P	
C1508	1-102-121-00	CERAMIC	0.0022μF 10% 50V	CN506	* 1-580-689-11	PIN, CONNECTOR (PC BOARD)	4P	
C1510	1-126-941-11	ELECT	470μF 20% 25V	CN507	* 1-691-134-11	PIN, CONNECTOR (PC BOARD)	2P	
C1511	1-126-964-11	ELECT	10μF 20% 50V	CN508	1-695-915-11	TAB (CONTACT) (53/61V85)		
C1512	1-126-933-11	ELECT	100μF 20% 16V	CN601	* 1-580-843-11	PIN, CONNECTOR (POWER)		
C1513	1-126-964-11	ELECT	10μF 20% 50V	CN605	* 1-779-890-11	CONNECTOR, BOARD TO BOARD	10P	
C1516	1-104-665-11	ELECT	100μF 20% 25V	CN651	* 1-779-890-11	CONNECTOR, BOARD TO BOARD	10P	
C1517	1-130-471-00	MYLAR	0.001μF 5% 50V	CN652	* 1-573-963-11	PIN, CONNECTOR (PC BOARD)	3P	
C1518	1-102-125-00	CERAMIC	0.0047μF 10% 50V	CN653	1-695-915-11	TAB (CONTACT)		
C1519	1-102-106-00	CERAMIC	100pF 10% 50V	CN1501*	1-564-507-11	PLUG, CONNECTOR	4P	
C1520	1-126-933-11	ELECT	100μF 20% 16V	CN1502*	1-779-890-11	CONNECTOR, BOARD TO BOARD	10P	
C1521	1-126-941-11	ELECT	470μF 20% 25V	CN1503*	1-564-507-11	PLUG, CONNECTOR	4P	
C1522	1-126-941-11	ELECT	470μF 20% 25V	CN1504*	1-564-507-11	PLUG, CONNECTOR	4P	
C1523	1-126-964-11	ELECT	10μF 20% 50V	CN1505*	1-564-507-11	PLUG, CONNECTOR	4P	
C1524	1-102-106-00	CERAMIC	100pF 10% 50V	CN1506*	1-564-506-11	PLUG, CONNECTOR	3P	
C1525	1-102-852-91	CERAMIC	47pF 5% 50V	CN1507*	1-564-506-11	PLUG, CONNECTOR	3P	
C1526	1-136-177-00	MYLAR	1μF 5% 50V					
C1527	1-102-125-00	CERAMIC	0.0047μF 10% 50V					
C1528	1-126-941-11	ELECT	470μF 20% 25V					



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The components identified by shading and mark Δ are critical for safety.
Replace only with part number specified.

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK				
CN1508*	1-564-506-11	PLUG, CONNECTOR 3P		D677	8-719-991-33	DIODE 1SS133T-77					
<DIODE>											
D501	8-719-109-85	DIODE MTZJ-T-77-5.1B		D680	8-719-991-33	DIODE 1SS133T-77					
D505	8-719-110-41	DIODE MTZJ-T-77-15B		D1501	8-719-109-89	DIODE MTZJ-T-77-5.6B					
D506	8-719-921-63	DIODE MTZJ-T-77-7.5B		D1503	8-719-921-40	DIODE MTZJ-T-77-4.7B					
D507	8-719-991-33	DIODE 1SS133T-77		D1504	8-719-110-08	DIODE MTZJ-T-77-8.2B					
D513	8-719-991-33	DIODE 1SS133T-77		D1505	8-719-110-41	DIODE MTZJ-T-77-15B					
D517	8-719-979-85	DIODE RGP15J-6040G23		D1506	8-719-110-41	DIODE MTZJ-T-77-15B					
D518	8-719-945-80	DIODE ERC06-15S		D1507	8-719-110-41	DIODE MTZJ-T-77-15B					
D520	8-719-302-43	DIODE RGP10GPKG23		D1509	8-719-110-41	DIODE MTZJ-T-77-15B					
D522 Δ	8-719-302-43	DIODE EL1Z-V1		D1510	8-719-110-41	DIODE MTZJ-T-77-15B					
D525	8-719-018-82	DIODE RGP02-20EL-6394		D1513	8-719-110-41	DIODE MTZJ-T-77-15B					
D526	8-719-018-82	DIODE RGP02-20EL-6394		D1515	8-719-110-41	DIODE MTZJ-T-77-15B					
D528	8-719-908-03	DIODE GP08DPKG23		D1520	8-719-109-93	DIODE MTZJ-T-77-6.2B					
D529	8-719-302-43	DIODE RGP10GPKG23		D1521	8-719-109-93	DIODE MTZJ-T-77-6.2B					
D530	8-719-991-33	DIODE 1SS133T-77		D1522	8-719-924-16	DIODE MTZJ-T-77-24					
D531	8-719-991-33	DIODE 1SS133T-77		D1523	8-719-924-16	DIODE MTZJ-T-77-24					
D532	8-719-908-03	DIODE GP08DPKG23		D1525	8-719-908-03	DIODE GP08DPKG23					
D533	8-719-302-43	DIODE RGP10GPKG23		<FUSE>							
D534	8-719-302-43	DIODE RGP10GPKG23		F601	Δ 1-576-193-11	FUSE 6.3A/125V					
D601	8-719-068-00	DIODE ERC04-06SE		F651	Δ 1-576-360-21	FUSE, MULTIPLE 4A					
D602	8-719-068-00	DIODE ERC04-06SE		F652	Δ 1-576-360-21	FUSE, MULTIPLE 4A					
D603	Δ 8-719-510-53	DIODE D4SB60L-F		<FERRITE BEAD>							
D604	8-719-110-41	DIODE MTZJ-T-77-15B		FB651	1-410-396-41	FERRITE	0.45 μ H				
D605	8-719-110-49	DIODE MTZJ-T-77-18B		FB655	1-410-396-41	FERRITE	0.45 μ H				
D607	8-719-991-33	DIODE 1SS133T-77		FB656	1-410-396-41	FERRITE	0.45 μ H				
D609	8-719-948-45	DIODE ERA22-08TP3		FB657	1-410-396-41	INDUCTOR	0.45 μ H				
D610	8-719-510-48	DIODE D1N20R-TA		<IC>							
D650	8-719-028-45	DIODE D2L20U-F		IC502	8-759-133-90	IC μ PC339C					
D651	8-719-063-70	DIODE D1NL20U-TA		IC601	Δ 8-729-045-39	TRANSISTOR MX0842AB-F					
D652	8-719-028-45	DIODE D2L20U-F		IC651	8-759-103-93	IC μ PC393C					
D653	8-719-028-45	DIODE D2L20U-F		IC652	8-759-701-84	IC NJM7905FA					
D654	8-719-057-96	DIODE D10SC6M-4012		IC653	8-759-701-75	IC NJM7805FA					
D655	8-719-052-91	DIODE D4SBS4-F		IC654	Δ 8-749-012-13	IC DM-58					
D656	8-719-028-45	DIODE D2L20U-F		IC655	8-759-450-47	IC BA05T					
D657	8-719-028-45	DIODE D2L20U-F		IC1501	8-752-068-36	IC CXA1726AS					
D658	8-719-063-70	DIODE D1NL20U-TA		IC1502	8-749-014-37	IC STK392-150					
D659	8-719-063-70	DIODE D1NL20U-TA		IC1504	8-759-634-51	IC NJM4558D					
D660	8-719-028-45	DIODE D2L20U-F		IC1505	8-759-634-51	IC NJM4558D					
D661	8-719-991-33	DIODE 1SS133T-77		IC1506	8-749-014-37	IC STK392-150					
D662	8-719-991-33	DIODE 1SS133T-77		IC1507	8-759-634-51	IC NJM4558D					
D663	8-719-991-33	DIODE 1SS133T-77		IC1509	8-759-593-33	IC LA78045					
D664	8-719-981-94	DIODE MTZJ-T-77-2.7A		<COIL>							
D665	8-719-991-33	DIODE 1SS133T-77		L501	1-412-533-21	INDUCTOR	47 μ H				
D666	8-719-991-33	DIODE 1SS133T-77		L502	1-414-187-11	INDUCTOR	47 μ H				
D667	8-719-032-12	DIODE D1NS6-TR		L503	1-459-104-00	COIL, DUST CORE					
D668	8-719-110-61	DIODE MTZJ-T-77-24A		L504	Δ 1-419-082-11	COIL, HORIZONTAL LINEARITY					
D669	8-719-921-86	DIODE MTZJ-T-77-13		L505	1-412-552-11	INDUCTOR	2.2mH				
D670	8-719-027-22	DIODE D3S6M-F		L601							
D671	8-719-027-22	DIODE D3S6M-F		L601	Δ 1-433-900-11	TRANSFORMER, LINE FILTER					
D672	8-719-200-82	DIODE 11ES2-TA2B		L651	1-419-389-21	INDUCTOR	8.2 μ H				
D673	8-719-991-33	DIODE 1SS133T-77									
D674	8-719-991-33	DIODE 1SS133T-77									
D675	8-719-110-17	DIODE MTZJ-T-77-10B									
D676	8-719-109-72	DIODE MTZJ-T-77-3.9B									



The components identified by **█** in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

Les composants identifiés par une trame et une marque **▲** sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

The components identified by shading and mark **▲** are critical for safety. Replace only with part number specified.

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
L652	1-419-389-21	INDUCTOR	8.2μH	Q1505	8-729-423-33	TRANSISTOR	2SC3311A-QRSTA
L653	1-406-975-21	INDUCTOR	47μH	Q1506	8-729-423-33	TRANSISTOR	2SC3311A-QRSTA
L654	1-410-396-41	FERRITE	0.45μH	Q1508	8-729-423-33	TRANSISTOR	2SC3311A-QRSTA
L655	1-410-396-41	FERRITE	0.45μH	Q1509	8-729-119-76	TRANSISTOR	2SA1309A-QRSTA
L656	1-412-525-31	INDUCTOR	10μH	Q1511	8-729-423-33	TRANSISTOR	2SC3311A-QRSTA
L657	1-412-525-31	INDUCTOR	10μH				<RESISTOR>
L658	1-412-525-31	INDUCTOR	10μH	R501	1-247-843-11	CARBON	3.3K 5% 1/4W
L659	1-412-521-31	INDUCTOR	4.7μH	R502	1-249-419-11	CARBON	1.5K 5% 1/4W
L660	1-412-521-31	INDUCTOR	4.7μH	R503	1-260-336-11	CARBON	4.7K 5% 1/2W
L1501	1-412-533-21	INDUCTOR	47μH	R504	1-260-087-11	CARBON	100 5% 1/2W
L1502	1-412-533-21	INDUCTOR	47μH	R505	1-260-087-11	CARBON	100 5% 1/2W
L1509	1-412-533-21	INDUCTOR	47μH				<NEON LAMP>
L1510	1-412-533-21	INDUCTOR	47μH	R506	1-216-481-11	METAL OXIDE	1.2K 5% 3W
L1511	1-412-533-21	INDUCTOR	47μH	R507	1-216-481-11	METAL OXIDE	1.2K 5% 3W
L1512	1-412-533-21	INDUCTOR	47μH	R508	1-216-481-11	METAL OXIDE	1.2K 5% 3W
L1513	1-412-525-31	INDUCTOR	10μH	R509	1-260-337-11	CARBON	5.6K 5% 1/2W
L1514	1-412-911-11	FERRITE	0μH	R510	1-249-421-11	CARBON	2.2K 5% 1/4W
L1515	1-412-911-11	FERRITE	0μH				<IC LINK>
NL501	1-517-778-21	LAMP, NEON		R511	1-215-879-11	METAL OXIDE	47K 5% 1W
NL502	1-517-778-21	LAMP, NEON		R512	1-249-422-11	CARBON	2.7K 5% 1/4W
NL503	1-517-778-21	LAMP, NEON		R513	1-249-422-11	CARBON	2.7K 5% 1/4W
NL504	1-517-778-21	LAMP, NEON		R514	1-249-422-11	CARBON	2.7K 5% 1/4W
NL505	1-517-778-21	LAMP, NEON		R515	1-260-131-11	CARBON	470K 5% 1/2W
							<TRANSISTOR>
PS501	1-533-593-11	LINK, IC		R517	1-247-891-00	CARBON	330K 5% 1/4W
PS1501	1-533-593-11	LINK, IC		R519	1-215-445-00	METAL	10K 1% 1/4W
PS1502	1-533-593-11	LINK, IC		R522	1-215-399-00	METAL	120 1% 1/4W
PS1503	1-533-593-11	LINK, IC		R523	1-247-895-91	CARBON	470K 5% 1/4W
PS1504	1-533-593-11	LINK, IC		R524	1-247-863-91	CARBON	22K 5% 1/4W
PS1505	1-533-593-11	LINK, IC					<TRANSISTOR>
PS1506	1-533-593-11	LINK, IC		R525	1-249-428-11	CARBON	8.2K 5% 1/4W
				R526	1-249-437-11	CARBON	47K 5% 1/4W
				R527	1-249-428-11	CARBON	8.2K 5% 1/4W
				R528	1-249-437-11	CARBON	47K 5% 1/4W
				R529	1-249-439-11	CARBON	68K 5% 1/4W
							& R536 ▲ METAL 1% 1/4W
Q501	8-729-048-47	TRANSISTOR	2SC2688(5)-LK	R530	1-249-428-11	CARBON	8.2K 5% 1/4W
Q502	8-729-048-46	TRANSISTOR	2SD2578-RF	R531	1-249-429-11	CARBON	10K 5% 1/4W
Q503	8-729-931-45	TRANSISTOR	IRF614-LF	R532	1-249-430-11	CARBON	12K 5% 1/4W
Q505	8-729-032-61	TRANSISTOR	2SC5022-02	R533	1-247-887-00	CARBON	220K 5% 1/4W
Q506	8-729-119-76	TRANSISTOR	2SA1309A-QRSTA				
Q507	8-729-032-61	TRANSISTOR	2SC5022-02	R537	1-247-863-91	CARBON	22K 5% 1/4W
Q601	8-729-046-40	TRANSISTOR	2SK2663	R538	1-215-443-00	METAL	8.2K 1% 1/4W
Q602	8-729-922-39	TRANSISTOR	2SD2144S-TP-V	R542	1-249-424-11	CARBON	3.9K 5% 1/4W
Q651	8-729-119-76	TRANSISTOR	2SA1309A-QRSTA	R543	1-260-135-11	CARBON	1M 5% 1/2W
Q652	8-729-922-39	TRANSISTOR	2SD2144S-TP-V	R544	1-249-405-11	CARBON	100 5% 1/4W
Q653	8-729-119-76	TRANSISTOR	2SA1309A-QRSTA				& R545 ▲ METAL 1/4W
Q654	8-729-119-76	TRANSISTOR	2SA1309A-QRSTA	R546	1-215-456-00	METAL	30K 1% 1/4W
Q655	8-729-423-33	TRANSISTOR	2SC3311A-QRSTA	R548	1-215-449-00	METAL	15K 1% 1/4W
Q656	8-729-423-33	TRANSISTOR	2SC3311A-QRSTA	R550	1-215-910-00	METAL OXIDE	68 5% 3W
Q657	8-729-119-76	TRANSISTOR	2SA1309A-QRSTA	R551	1-215-910-00	METAL OXIDE	68 5% 3W
Q658	8-729-026-39	TRANSISTOR	2SA933AS-QRT				R556 1-249-437-11 CARBON 47K 5% 1/4W
Q1501	8-729-423-33	TRANSISTOR	2SC3311A-QRSTA	R563	1-247-887-00	CARBON	220K 5% 1/4W
Q1502	8-729-119-76	TRANSISTOR	2SA1309A-QRSTA	R566	1-215-868-00	METAL OXIDE	680 5% 1W
Q1503	8-729-423-33	TRANSISTOR	2SC3311A-QRSTA	R567	1-249-437-11	CARBON	47K 5% 1/4W
				R568	1-249-405-11	CARBON	100 5% 1/4W
							R569 1-260-314-11 CARBON 68 5% 1/2W
				R570	1-247-807-31	CARBON	100 5% 1/4W
				R571	1-215-917-11	METAL OXIDE	1K 5% 3W
				R572	1-216-490-11	METAL OXIDE	39K 5% 3W



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The components identified by shading and mark \triangle are critical for safety.
Replace only with part number specified.

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R573	1-214-912-00	METAL	91K 1% 1/2W	R654	1-216-365-00	METAL OXIDE	0.47 5% 2W
R574	1-216-490-11	METAL OXIDE	39K 5% 3W	R655	1-260-288-11	CARBON	0.47 5% 1/2W
R575	1-247-863-91	CARBON	22K 5% 1/4W	R656	1-249-377-11	CARBON	0.47 5% 1/4W
R576	1-247-881-00	CARBON	120K 5% 1/4W	R657	1-215-421-00	METAL	1K 1% 1/4W
R577	1-214-923-00	METAL	270K 1% 1/2W	R658	1-249-429-11	CARBON	10K 5% 1/4W
R578	1-216-490-11	METAL OXIDE	39K 5% 3W	R659	1-215-446-00	METAL	11K 1% 1/4W
R579	1-216-490-11	METAL OXIDE	39K 5% 3W	R660	1-215-439-00	METAL	5.6K 1% 1/4W
R580	1-249-413-11	CARBON	470 5% 1/4W	R661	1-215-481-00	METAL	330K 1% 1/4W
R581	1-247-807-31	CARBON	100 5% 1/4W	R662	1-215-445-00	METAL	10K 1% 1/4W
R582	1-260-292-11	CARBON	1 5% 1/2W	R663	1-215-445-00	METAL	10K 1% 1/4W
R583	1-260-117-11	CARBON	33K 5% 1/2W	R664	1-249-425-11	CARBON	4.7K 5% 1/4W
R584	1-249-377-11	CARBON	0.47 5% 1/4W	R665	1-249-425-11	CARBON	4.7K 5% 1/4W
R586	1-215-862-11	METAL OXIDE	68 (48V85/61V85)	R666	1-247-887-00	CARBON	220K 5% 1/4W
R586	1-215-864-00	METAL OXIDE	150 5% 1W (53V85)	R667	1-249-425-11	CARBON	4.7K 5% 1/4W
R587	1-216-349-00	METAL OXIDE	1 5% 1W	R668	1-249-429-11	CARBON	10K 5% 1/4W
R588	1-215-862-11	METAL OXIDE	68 5% 1W (48V85/61V85)	R669	1-247-807-31	CARBON	100 5% 1/4W
R588	1-215-864-00	METAL OXIDE	150 5% 1W (53V85)	R670	1-249-417-11	CARBON	1K 5% 1/4W
R589	1-247-807-31	CARBON	100 5% 1/4W	R671	1-249-429-11	CARBON	10K 5% 1/4W
R590	1-260-127-11	CARBON	220K 5% 1/2W	R672	1-249-417-11	CARBON	1K 5% 1/4W
R591	1-216-392-11	METAL OXIDE	1.8 5% 3W	R673	1-249-425-11	CARBON	4.7K 5% 1/4W
R592	1-247-863-91	CARBON	22K 5% 1/4W	R675	1-249-429-11	CARBON	10K 5% 1/4W
R593	1-249-429-11	CARBON	10K 5% 1/4W	R676	1-249-417-11	CARBON	1K 5% 1/4W
R594	1-249-377-11	CARBON	0.47 5% 1/4W	R677	1-249-417-11	CARBON	1K 5% 1/4W
R595	1-249-377-11	CARBON	0.47 5% 1/4W	R678	1-249-425-11	CARBON	4.7K 5% 1/4W
R596	1-249-377-11	CARBON	0.47 5% 1/4W	R679	1-247-807-31	CARBON	100 5% 1/4W
R597	1-260-288-11	CARBON	0.47 5% 1/2W	R680	1-249-429-11	CARBON	10K 5% 1/4W
R598	1-249-377-11	CARBON	0.47 5% 1/4W	R681	1-249-429-11	CARBON	10K 5% 1/4W
R599	1-249-429-11	CARBON	10K 5% 1/4W	R682	1-249-417-11	CARBON	1K 5% 1/4W
R600	1-247-863-91	CARBON	22K 5% 1/4W	R683	1-249-417-11	CARBON	1K 5% 1/4W
R601	\triangle 1-219-776-11	CARBON	2.2M 10% 1/2W	R684	1-249-425-11	CARBON	4.7K 5% 1/4W
R602	\triangle 1-219-759-11	CARBON	1M 5% 1/2W	R685	1-249-417-11	CARBON	1K 5% 1/4W
R603	\triangle 1-240-881-11	CMT-MELF	0.82 5% 20W	R686	1-215-445-00	METAL	10K 1% 1/4W
R604	1-260-298-51	CARBON	3.3 5% 1/2W	R687	1-215-429-00	METAL	2.2K 1% 1/4W
R605	1-249-415-11	CARBON	680 5% 1/4W	R688	1-215-429-00	METAL	2.2K 1% 1/4W
R606	\triangle 1-240-881-11	CMT-MELF	0.82 5% 20W	R689	1-249-417-11	CARBON	1K 5% 1/4W
R607	1-249-389-11	CARBON	4.7 5% 1/4W	R690	1-215-437-00	METAL	4.7K 1% 1/4W
R608	1-247-791-91	CARBON	22 5% 1/4W	R691	1-249-417-11	CARBON	1K 5% 1/4W
R609	1-240-205-91	CARBON	22M 5% 1/2W	R1501	1-214-800-11	METAL	2.2 1% 1/2W
R610	1-260-127-11	CARBON	220K 5% 1/2W	R1502	1-214-800-11	METAL	2.2 1% 1/2W
R611	1-260-127-11	CARBON	220K 5% 1/2W	R1503	1-215-421-00	METAL	1K 1% 1/4W
R612	\triangle 1-202-933-61	FUSIBLE	0.1 10% 1/2W	R1504	1-215-433-00	METAL	3.3K 1% 1/4W
R613	1-249-413-11	CARBON	470 5% 1/4W	R1505	1-247-815-91	CARBON	220 5% 1/4W
R615	1-249-437-11	CARBON	47K 5% 1/4W	R1506	1-247-815-91	CARBON	220 5% 1/4W
R616	1-249-421-11	CARBON	2.2K 5% 1/4W	R1507	1-215-433-00	METAL	3.3K 1% 1/4W
R617	1-216-349-00	METAL OXIDE	1 5% 1W	R1508	1-215-421-00	METAL	1K 1% 1/4W
R618	1-260-127-11	CARBON	220K 5% 1/2W	R1509	1-214-800-11	METAL	2.2 1% 1/2W
R619	1-216-349-00	METAL OXIDE	1 5% 1W	R1510	1-214-800-11	METAL	2.2 1% 1/2W
R620	1-215-493-00	METAL	1M 1% 1/4W	R1511	1-214-800-11	METAL	2.2 1% 1/2W
R621	1-260-127-11	CARBON	220K 5% 1/2W	R1512	1-214-800-11	METAL	2.2 1% 1/2W
R622	1-249-441-11	CARBON	100K 5% 1/4W	R1513	1-215-421-00	METAL	1K 1% 1/4W
R623	1-260-127-11	CARBON	220K 5% 1/2W	R1514	1-215-433-00	METAL	3.3K 1% 1/4W
R624	1-260-127-11	CARBON	220K 5% 1/2W	R1515	1-247-815-91	CARBON	220 5% 1/4W
R625	1-249-377-11	CARBON	0.47 5% 1/4W	R1516	1-249-429-11	CARBON	10K 5% 1/4W
R626	1-249-429-11	CARBON	1 5% 1W	R1517	1-247-887-00	CARBON	220K 5% 1/4W
R627	1-249-429-11	CARBON	1 5% 1W	R1518	1-249-429-11	CARBON	10K 5% 1/4W
R628	1-249-429-11	CARBON	1 5% 1W	R1519	1-249-437-11	CARBON	47K 5% 1/4W
R629	1-249-429-11	CARBON	1 5% 1W	R1520	1-247-881-00	CARBON	120K 5% 1/4W



Les composants identifiés par une trame et une marque \triangle sont critiques pour la sécurité.
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The components identified by shading and mark \triangle are critical for safety.
 Replace only with part number specified.

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R1521	1-215-474-00	METAL	160K 1% 1/4W	R1587	1-249-414-11	CARBON	560 5% 1/4W
R1522	1-214-800-11	METAL	2.2 1% 1/2W	R1588	1-249-414-11	CARBON	560 5% 1/4W
R1523	1-214-800-11	METAL	2.2 1% 1/2W	R1589	1-249-414-11	CARBON	560 5% 1/4W
R1524	1-215-421-00	METAL	1K 1% 1/4W	R1590	1-249-414-11	CARBON	560 5% 1/4W
R1525	1-215-433-00	METAL	3.3K 1% 1/4W	R1591	1-249-414-11	CARBON	560 5% 1/4W
R1526	1-247-815-91	CARBON	220 5% 1/4W	R1592	1-249-414-11	CARBON	560 5% 1/4W
R1527	1-247-815-91	CARBON	220 5% 1/4W	R1593	1-216-475-11	METAL OXIDE	120 5% 3W
R1528	1-215-433-00	METAL	3.3K 1% 1/4W	R1594	1-216-475-11	METAL OXIDE	120 5% 3W
R1529	1-215-421-00	METAL	1K 1% 1/4W	R1595	1-216-475-11	METAL OXIDE	120 5% 3W
R1530	1-214-800-11	METAL	2.2 1% 1/2W	R1596	1-216-475-11	METAL OXIDE	120 5% 3W
R1531	1-214-800-11	METAL	2.2 1% 1/2W	R1597	1-216-475-11	METAL OXIDE	120 5% 3W
R1532	1-214-800-11	METAL	2.2 1% 1/2W	R1598	1-216-475-11	METAL OXIDE	120 5% 3W
R1533	1-249-441-11	CARBON	100K 5% 1/4W	R1599	1-249-429-11	CARBON	10K 5% 1/4W
R1534	1-214-800-11	METAL	2.2 1% 1/2W	R1600	1-247-807-31	CARBON	100 5% 1/4W
R1535	1-215-421-00	METAL	1K 1% 1/4W	R1601	1-249-437-11	CARBON	47K 5% 1/4W
R1536	1-215-433-00	METAL	3.3K 1% 1/4W	R1602	1-247-807-31	CARBON	100 5% 1/4W
R1537	1-247-815-91	CARBON	220 5% 1/4W	R1603	1-249-418-11	CARBON	1.2K 5% 1/4W
R1538	1-249-429-11	CARBON	10K 5% 1/4W	R1604	1-249-429-11	CARBON	10K 5% 1/4W
R1539	1-249-428-11	CARBON	8.2K 5% 1/4W	R1609	1-215-445-00	METAL	10K 1% 1/4W
R1540	1-249-417-11	CARBON	1K 5% 1/4W	R1610	1-247-807-31	CARBON	100 5% 1/4W
R1541	1-247-843-11	CARBON	3.3K 5% 1/4W	R1611	1-247-807-31	CARBON	100 5% 1/4W
R1542	1-249-429-11	CARBON	10K 5% 1/4W	R1612	1-249-429-11	CARBON	10K 5% 1/4W
R1543	1-249-429-11	CARBON	10K 5% 1/4W	R1613	1-249-429-11	CARBON	10K 5% 1/4W
R1544	1-249-419-11	CARBON	1.5K 5% 1/4W	R1615	1-215-445-00	METAL	10K 1% 1/4W
R1548	1-249-438-11	CARBON	56K 5% 1/4W	<RELAY>			
R1549	1-214-800-11	METAL	2.2 1% 1/2W	RY601 \triangle 1-755-266-11 RELAY, AC POWER			
R1550	1-215-447-00	METAL	12K 1% 1/4W	<SPARK GAP>			
R1551	1-249-428-11	CARBON	8.2K 5% 1/4W	SG501	1-519-466-11	GAP, SPARK (53/61V85)	
R1552	1-214-800-11	METAL	2.2 1% 1/2W	SG502	1-519-466-11	GAP, SPARK (53/61V85)	
R1554	1-215-449-00	METAL	15K 1% 1/4W	<TRANSFORMER>			
R1555	1-247-807-31	CARBON	100 5% 1/4W	T501	\triangle 1-433-836-11	TRANSFORMER, HORIZONTAL DRIVE	
R1556	1-247-863-91	CARBON	22K 5% 1/4W	T502	\triangle 1-433-876-11	TRANSFORMER, FERRITE (PMT)	
R1557	1-249-429-11	CARBON	10K 5% 1/4W	T504	\triangle 1-453-238-31	FLYBACK TRANS ASSY	
R1558	1-249-429-11	CARBON	10K 5% 1/4W	T601	\triangle 1-433-871-11	TRANSFORMER, CONVERTER (PIT)	
R1559	1-215-857-11	METAL OXIDE	10 5% 1W	T602	\triangle 1-433-844-11	TRANSFORMER, CONVERTER	
R1560	1-216-452-11	METAL OXIDE	180 5% 2W	T603	\triangle 1-429-992-21	TRANSFORMER, CONVERTER (PRT)	
R1561	1-249-429-11	CARBON	10K 5% 1/4W	<THERMISTOR>			
R1562	1-249-429-11	CARBON	10K 5% 1/4W	TH1501	1-807-925-11	THERMISTOR	
R1563	1-249-429-11	CARBON	10K 5% 1/4W	<TEST PIN>			
R1564	1-215-445-00	METAL	10K 1% 1/4W	TP501	* 1-535-881-21	TERMINAL, TP (AUTO INSERTION)	
R1565	1-249-429-11	CARBON	10K 5% 1/4W	<VARISTOR>			
R1566	1-249-427-11	CARBON	6.8K 5% 1/4W	VDR601 \triangle 1-801-073-31 VARISTOR TNR14V471K660			
R1567	1-247-863-91	CARBON	22K 5% 1/4W	*****			
R1568	1-249-429-11	CARBON	10K 5% 1/4W				
R1570	1-249-383-11	CARBON	1.5 5% 1/4W				
R1576	1-249-429-11	CARBON	10K 5% 1/4W				
R1577	1-215-447-00	METAL	12K 1% 1/4W				
R1578	1-249-429-11	CARBON	10K 5% 1/4W				
R1579	1-215-421-00	METAL	1K 1% 1/4W				
R1580	1-215-421-00	METAL	1K 1% 1/4W				
R1581	1-215-474-00	METAL	160K 1% 1/4W				
R1582	1-249-421-11	CARBON	2.2K 5% 1/4W				
R1583	1-247-807-31	CARBON	100 5% 1/4W				
R1584	1-247-863-91	CARBON	22K 5% 1/4W				
R1585	1-215-449-00	METAL	15K 1% 1/4W				
R1586	1-249-441-11	CARBON	100K 5% 1/4W				



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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
	* A-1331-922-A	CR BOARD, COMPLETE	*****	R715	1-249-419-11	CARBON	1.5K 5% 1/4W
			*****	R718	1-260-133-11	CARBON	680K 5% 1/2W
	4-382-854-11	SCREW (M3X10), P, SW (+)		R719	1-249-425-11	CARBON	4.7K 5% 1/4W
				R720	1-260-099-11	CARBON	1K 5% 1/2W
		<CAPACITOR>		R721	1-260-099-11	CARBON	1K 5% 1/2W
C701	1-104-570-11	CERAMIC	0.001 μ F 10% 2KV	R722	1-260-087-11	CARBON	100 5% 1/2W
C703	1-104-664-11	ELECT	47 μ F 20% 25V	R723	1-412-911-11	FERRITE	0 μ H
C706	1-102-114-00	CERAMIC	470PF 10% 50V				
C708	1-102-113-00	CERAMIC	390PF 10% 50V				
C709	1-101-880-00	CERAMIC	47PF 5% 50V				
C710	1-162-115-00	CERAMIC	330PF 10% 2KV				
C711	1-161-830-00	CERAMIC	0.0047 μ F 500V				
C712	1-107-662-11	ELECT	22 μ F 20% 250V				
		<CONNECTOR>					
CN701	* 1-564-507-11	PLUG, CONNECTOR 4P					
CN702	* 1-564-512-11	PLUG, CONNECTOR 9P					
CN703	1-785-879-11	CONNECTOR, ONE TOUCH					
CN704 \triangle	1-251-182-11	SOCKET, CRT					
CN705	1-695-915-11	TAB (CONTACT)					
CN706	1-695-915-11	TAB (CONTACT)					
		<DIODE>					
D705	8-719-991-33	DIODE	1SS133T-77	C731	1-104-664-11	ELECT	47 μ F 20% 25V
D706	8-719-991-33	DIODE	1SS133T-77	C732	1-104-570-11	CERAMIC	0.001 μ F 10% 2KV
D707	8-719-991-33	DIODE	1SS133T-77	C733	1-102-114-00	CERAMIC	470PF 10% 50V
D708	8-719-991-33	DIODE	1SS133T-77	C734	1-102-114-00	CERAMIC	470PF 10% 50V
D709	8-719-991-33	DIODE	1SS133T-77	C735	1-101-880-00	CERAMIC	47PF 5% 50V
		<COIL>		C736	1-161-830-00	CERAMIC	0.0047 μ F 500V
L701	1-414-188-41	INDUCTOR	68 μ H	C737	1-162-115-00	CERAMIC	330PF 10% 2KV
L702	1-412-911-11	FERRITE	0 μ H	C738	1-107-662-11	ELECT	22 μ F 20% 250V
		<NEON LAMP>		C1301	1-106-343-00	MYLAR	0.001 μ F 10% 200V
NL701	1-517-778-21	LAMP, NEON		C1302	1-107-639-11	ELECT	47 μ F 20% 160V
		<TRANSISTOR>		C1303	1-126-933-11	ELECT	100 μ F 20% 16V
Q704	8-729-423-33	TRANSISTOR	2SC3311A-QRSTA	C1305	1-126-933-11	ELECT	100 μ F 20% 16V
Q705	8-729-326-11	TRANSISTOR	2SC2611	C1308	1-106-383-00	MYLAR	0.047 μ F 10% 200V
Q706	8-729-200-17	TRANSISTOR	2SA1091-O	C1309	1-106-383-00	MYLAR	0.047 μ F 10% 200V
		<RESISTOR>		C1310	1-126-960-11	ELECT	1 μ F 20% 50V
R701	1-219-743-11	CARBON	100 5% 1/2W	C1312	1-161-830-00	CERAMIC	0.0047 μ F 500V
R702	1-260-132-11	CARBON	560K 5% 1/2W	C1313	1-102-129-00	CERAMIC	0.01 μ F 10% 50V
R703	1-216-486-00	METAL OXIDE	8.2K 5% 3W F	C1314	1-102-129-00	CERAMIC	0.01 μ F 10% 50V
R704	1-215-476-00	METAL	200K 1% 1/4W	C1315	1-126-933-11	ELECT	100 μ F 20% 16V
R711	1-247-807-31	CARBON	100 5% 1/4W				
R712	1-249-404-00	CARBON	82 5% 1/4W				
R713	1-216-486-00	METAL OXIDE	8.2K 5% 3W F				
R714	1-249-393-11	CARBON	10 5% 1/4W				
		<CONNECTOR>		CN736	* 1-564-512-11	PLUG, CONNECTOR 9P	
				CN737	1-785-879-11	CONNECTOR, ONE TOUCH	
				CN738	1-695-915-11	TAB (CONTACT)	
				CN739	1-695-915-11	TAB (CONTACT)	

KP-48V85/53V85/61V85

RM-Y905 RM-Y905 RM-Y905

CG **CB**

REF. NO. PART NO. DESCRIPTION

REMARK

CN740 Δ 1-251-182-11 SOCKET, CRT

CN1301* 1-564-506-11 PLUG, CONNECTOR 3P
 CN1302* 1-564-506-11 PLUG, CONNECTOR 3P
 CN1303* 1-564-506-11 PLUG, CONNECTOR 3P
 CN1304* 1-564-509-11 PLUG, CONNECTOR 6P

<DIODE>

D731 8-719-991-33 DIODE 1SS133T-77
 D732 8-719-991-33 DIODE 1SS133T-77
 D733 8-719-991-33 DIODE 1SS133T-77
 D734 8-719-991-33 DIODE 1SS133T-77
 D735 8-719-991-33 DIODE 1SS133T-77

D736 8-719-109-85 DIODE RD5.1ES-B2
 D1304 8-719-991-33 DIODE 1SS133T-77

<COIL>

L731 1-414-188-41 INDUCTOR 68 μ H
 L732 1-412-911-11 FERRITE 0 μ H
 L1301 1-412-911-11 FERRITE 0 μ H
 L1302 1-412-911-11 FERRITE 0 μ H

<NEON LAMP>

NL731 1-517-778-21 LAMP, NEON

<TRANSISTOR>

Q731 8-729-423-33 TRANSISTOR 2SC3311A-QRSTA
 Q732 8-729-326-11 TRANSISTOR 2SC2611
 Q733 8-729-200-17 TRANSISTOR 2SA1091-O
 Q734 8-729-119-76 TRANSISTOR 2SA1175-HFE
 Q1301 8-729-017-06 TRANSISTOR 2SC4793

Q1302 8-729-017-05 TRANSISTOR 2SA1837
 Q1303 8-729-119-76 TRANSISTOR 2SA1175-HFE
 Q1304 8-729-423-33 TRANSISTOR 2SC3311A-QRSTA
 Q1305 8-729-423-33 TRANSISTOR 2SC3311A-QRSTA
 Q1306 8-729-423-33 TRANSISTOR 2SC3311A-QRSTA

<RESISTOR>

R731 1-219-743-11 CARBON 100 5% 1/2W
 R732 1-260-132-11 CARBON 560K 5% 1/2W
 R733 1-247-807-31 CARBON 100 5% 1/4W
 R734 1-260-087-11 CARBON 100 5% 1/2W
 R735 1-249-403-11 CARBON 68 5% 1/4W

R736 1-216-486-00 METAL OXIDE 8.2K 5% 3W F
 R737 1-249-393-11 CARBON 10 5% 1/4W
 R738 1-249-414-11 CARBON 560 5% 1/4W
 R739 1-216-486-00 METAL OXIDE 8.2K 5% 3W F
 R741 1-249-425-11 CARBON 4.7K 5% 1/4W

R742 1-260-099-11 CARBON 1K 5% 1/2W
 R743 1-247-881-00 CARBON 120K 5% 1/4W
 R744 1-260-133-11 CARBON 680K 5% 1/2W
 R745 1-260-099-11 CARBON 1K 5% 1/2W
 R746 1-249-437-11 CARBON 47K 5% 1/4W

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REF. NO. PART NO. DESCRIPTION

R747 1-249-438-11 CARBON 56K 5% 1/4W
 R753 1-412-911-11 FERRITE 0 μ H
 R1301 1-215-916-11 METAL OXIDE 680 5% 3W F
 R1302 1-215-916-11 METAL OXIDE 680 5% 3W F
 R1303 1-249-400-11 CARBON 39 5% 1/4W F

R1304 1-249-391-11 CARBON 6.8 5% 1/4W F
 R1305 1-249-391-11 CARBON 6.8 5% 1/4W F
 R1306 1-249-429-11 CARBON 10K 5% 1/4W
 R1307 1-260-311-11 CARBON 39 5% 1/2W
 R1308 1-249-419-11 CARBON 1.5K 5% 1/4W

R1310 1-249-441-11 CARBON 100K 5% 1/4W
 R1311 1-249-419-11 CARBON 1.5K 5% 1/4W F
 R1314 1-249-419-11 CARBON 1.5K 5% 1/4W
 R1315 1-249-399-11 CARBON 33 5% 1/4W
 R1319 1-249-413-11 CARBON 470 5% 1/4W

R1321 1-249-406-11 CARBON 120 5% 1/4W
 R1323 1-249-377-11 CARBON 0.47 5% 1/4W F
 R1324 1-249-425-11 CARBON 4.7K 5% 1/4W
 R1325 1-249-431-11 CARBON 15K 5% 1/4W
 R1327 1-249-441-11 CARBON 100K 5% 1/4W

R1328 1-249-435-11 CARBON 33K 5% 1/4W

<SPARK GAP>

SG731 1-519-422-11 GAP, SPARK
 SG732 1-517-729-31 GAP, SPARK

<TEST PIN>

TP731 * 1-535-881-21 TERMINAL, TP (AUTO INSERTION)
 TP732 * 1-535-881-21 TERMINAL, TP (AUTO INSERTION)
 TP733 * 1-535-881-21 TERMINAL, TP (AUTO INSERTION)

* A-1331-924-A CB BOARD, COMPLETE

4-382-854-11 SCREW (M3X10), P, SW (+)

<CAPACITOR>

C761 1-104-664-11 ELECT 47 μ F 20% 25V
 C762 1-104-570-11 CERAMIC 0.001 μ F 10% 2KV
 C763 1-102-114-00 CERAMIC 470PF 10% 50V
 C764 1-102-112-00 CERAMIC 330PF 10% 50V
 C765 1-101-880-00 CERAMIC 47PF 5% 50V

C767 1-162-115-00 CERAMIC 330PF 10% 2KV
 C768 1-126-964-11 ELECT 10 μ F 20% 50V
 C769 1-161-830-00 CERAMIC 0.0047 μ F 500V
 C770 1-107-662-11 ELECT 22 μ F 20% 250V

<CONNECTOR>

CN761 * 1-564-508-11 PLUG, CONNECTOR 5P
 CN762 * 1-564-512-11 PLUG, CONNECTOR 9P
 CN763 1-785-879-11 CONNECTOR, ONE TOUCH

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KP-48V85/53V85/61V85

RM-Y905 RM-Y905 RM-Y905

CB HC HA

REF. NO.	PART NO.	DESCRIPTION	REMARK
CN764	1-695-915-11	TAB (CONTACT)	
CN765	1-695-915-11	TAB (CONTACT)	
CN766 1-251-182-11 SOCKET, CRT			

REF. NO.	PART NO.	DESCRIPTION	REMARK
		<TEST PIN>	
TP761	* 1-535-881-21	TERMINAL, TP (AUTO INSERTION)	

<DIODE>			
D761	8-719-991-33	DIODE 1SS133T-77	
D762	8-719-991-33	DIODE 1SS133T-77	
D763	8-719-991-33	DIODE 1SS133T-77	
D764	8-719-991-33	DIODE 1SS133T-77	
D765	8-719-991-33	DIODE 1SS133T-77	

<COIL>			
L761	1-414-188-41	INDUCTOR	68µH
L762	1-412-911-11	FERRITE	0µH

<NEON LAMP>			
NL761	1-517-778-21	LAMP, NEON	

<TRANSISTOR>			
Q761	8-729-423-33	TRANSISTOR 2SC3311A-QRSTA	
Q762	8-729-326-11	TRANSISTOR 2SC2611	
Q763	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q764	8-729-200-17	TRANSISTOR 2SA1091-O	

<RESISTOR>			
R761	1-219-743-11	CARBON	100 5% 1/2W
R762	1-260-132-11	CARBON	560K 5% 1/2W
R763	1-247-807-31	CARBON	100 5% 1/4W
R764	1-216-486-00	METAL OXIDE	8.8K 5% 3W F
R765	1-247-807-31	CARBON	100 5% 1/4W
R766	1-216-486-00	METAL OXIDE	8.2K 5% 3W F
R767	1-249-393-11	CARBON	10 5% 1/4W
R768	1-249-418-11	CARBON	1.2K 5% 1/4W
R770	1-249-404-00	CARBON	82 5% 1/4W
R771	1-249-426-11	CARBON	5.6K 5% 1/4W
R772	1-249-435-11	CARBON	33K 5% 1/4W
R773	1-260-099-11	CARBON	1K 5% 1/2W
R775	1-249-425-11	CARBON	4.7K 5% 1/4W
R776	1-260-133-11	CARBON	680K 5% 1/2W
R777	1-260-099-11	CARBON	1K 5% 1/2W
R778	1-259-880-11	CARBON	2.2M 5% 1/2W
R779	1-260-087-11	CARBON	100 5% 1/2W
R783	1-412-911-11	FERRITE	0µH

<SPARK GAP>			
SG761	1-519-422-11	GAP, SPARK	
SG762	1-517-729-31	GAP, SPARK	

* A-1372-618-A HC BOARD, COMPLETE

C1291	1-126-791-11	ELECT	10µF	20%	16V
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CN1291* 1-564-518-11 PLUG, CONNECTOR 3P

D1291 8-719-066-43 DIODE GP1U28Y
D1292 8-719-109-89 DIODE RD5.6ESB2
D1293 8-719-109-89 DIODE RD5.6ESB2

R1291 1-247-807-31 CARBON 100 5% 1/4W

* A-1372-619-A HA BOARD, COMPLETE

CN1202* 1-564-517-11 PLUG, CONNECTOR 2P

CN1203* 1-564-522-11 PLUG, CONNECTOR 7P

D1201 8-719-053-43 DIODE SLR-325VCT31

R1201 1-249-431-11 CARBON 15K 5% 1/4W
R1202 1-249-425-11 CARBON 4.7K 5% 1/4W
R1203 1-249-417-11 CARBON 1K 5% 1/4W
R1204 1-249-419-11 CARBON 1.5K 5% 1/4W
R1205 1-249-421-11 CARBON 2.2K 5% 1/4W

R1206 1-247-815-91 CARBON 220 5% 1/4W

S1201 1-572-198-11 SWITCH, KEYBOARD (FLASH FOCUS)

HA **HB** **U**

REF. NO.	PART NO.	DESCRIPTION	REMARK
S1202	1-572-198-11	SWITCH, KEYBOARD (TV/VIDEO)	
S1203	1-572-198-11	SWITCH, KEYBOARD (VOLUME -)	
S1204	1-572-198-11	SWITCH, KEYBOARD (VOLUME +)	
S1205	1-572-198-11	SWITCH, KEYBOARD (CHANNEL -)	
S1206	1-572-198-11	SWITCH, KEYBOARD (CHANNEL +)	
S1207	1-572-198-11	SWITCH, KEYBOARD (POWER)	

REF. NO.	PART NO.	DESCRIPTION	REMARK
S1255	1-572-198-11	SWITCH, KEYBOARD (SET UP)	

* A-1373-727-A U BOARD, COMPLETE *****			

* A-1372-620-A HB BOARD, COMPLETE

<CAPACITOR>

C1251	1-128-551-11	ELECT	22μF	20%	25V
C1252	1-128-551-11	ELECT	22μF	20%	25V
C1253	1-128-551-11	ELECT	22μF	20%	25V
C1254	1-128-551-11	ELECT	22μF	20%	25V
C1255	1-128-551-11	ELECT	22μF	20%	25V

<CONNECTOR>

CN1252*	1-564-517-11	PLUG, CONNECTOR 2P
CN1253*	1-564-526-11	PLUG, CONNECTOR 11P

<DIODE>

D1251	8-719-110-17	DIODE RD10ESB2
D1252	8-719-110-17	DIODE RD10ESB2
D1253	8-719-110-17	DIODE RD10ESB2
D1254	8-719-110-17	DIODE RD10ESB2
D1255	8-719-110-17	DIODE RD10ESB2
D1256	8-719-110-17	DIODE RD10ESB2

<JACK>

J1251	1-770-361-11	TERMINAL BLOCK, S
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<RESISTOR>

R1251	1-249-429-11	CARBON	10K	5%	1/4W
R1252	1-249-424-11	CARBON	3.9K	5%	1/4W
R1253	1-249-421-11	CARBON	2.2K	5%	1/4W
R1254	1-249-418-11	CARBON	1.2K	5%	1/4W
R1255	1-249-425-11	CARBON	4.7K	5%	1/4W
R1256	1-247-804-11	CARBON	75	5%	1/4W
R1257	1-247-895-91	CARBON	470K	5%	1/4W
R1258	1-247-895-91	CARBON	470K	5%	1/4W
R1259	1-247-804-11	CARBON	75	5%	1/4W
R1260	1-247-804-11	CARBON	75	5%	1/4W

<SWITCH>

S1251	1-572-198-11	SWITCH, KEYBOARD (SELECT)
S1252	1-572-198-11	SWITCH, KEYBOARD (+)
S1253	1-572-198-11	SWITCH, KEYBOARD (-)
S1254	1-572-198-11	SWITCH, KEYBOARD (MENU)

<CAPACITOR>						
C1701	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V	
C1702	1-128-551-11	ELECT	22μF	20%	25V	
C1703	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V	
C1704	1-126-935-11	ELECT	470μF	20%	16V	
C1705	1-128-551-11	ELECT	22μF	20%	25V	
C1706	1-128-551-11	ELECT	22μF	20%	25V	
C1707	1-128-551-11	ELECT	22μF	20%	25V	
C1708	1-128-551-11	ELECT	22μF	20%	25V	
C1709	1-104-664-11	ELECT	47μF	20%	25V	
C1710	1-128-551-11	ELECT	22μF	20%	25V	
C1711	1-128-551-11	ELECT	22μF	20%	25V	
C1712	1-128-551-11	ELECT	22μF	20%	25V	
C1713	1-128-551-11	ELECT	22μF	20%	25V	
C1714	1-104-664-11	ELECT	47μF	20%	25V	
C1715	1-126-935-11	ELECT	470μF	20%	16V	
C1716	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V	
C1717	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V	
C1718	1-128-551-11	ELECT	22μF	20%	25V	
C1719	1-128-551-11	ELECT	22μF	20%	25V	
C1720	1-128-551-11	ELECT	22μF	20%	25V	
C1721	1-128-551-11	ELECT	22μF	20%	25V	
C1722	1-128-551-11	ELECT	22μF	20%	25V	
C1723	1-128-551-11	ELECT	22μF	20%	25V	
C1724	1-128-551-11	ELECT	22μF	20%	25V	
C1725	1-128-551-11	ELECT	22μF	20%	25V	
C1726	1-126-964-11	ELECT	10μF	20%	50V	
C1727	1-126-964-11	ELECT	10μF	20%	50V	
C1728	1-126-964-11	ELECT	10μF	20%	50V	
C1729	1-126-964-11	ELECT	10μF	20%	50V	
C1730	1-128-551-11	ELECT	22μF	20%	25V	
C1731	1-126-964-11	ELECT	10μF	20%	50V	
C1732	1-126-964-11	ELECT	10μF	20%	50V	
C1733	1-128-551-11	ELECT	22μF	20%	25V	
C1734	1-128-551-11	ELECT	22μF	20%	25V	
C1735	1-128-551-11	ELECT	22μF	20%	25V	
C1736	1-128-551-11	ELECT	22μF	20%	25V	
C1737	1-128-551-11	ELECT	22μF	20%	25V	
C1738	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V	
C1740	1-126-935-11	ELECT	470μF	20%	16V	
C1741	1-128-551-11	ELECT	22μF	20%	25V	
C1742	1-128-551-11	ELECT	22μF	20%	25V	
C1743	1-104-664-11	ELECT	47μF	20%	25V	
C1744	1-128-551-11	ELECT	22μF	20%	25V	
C1745	1-126-933-11	ELECT	100μF	20%	16V	
C2001	1-126-960-11	ELECT	1μF	20%	50V	
C2002	1-128-551-11	ELECT	22μF	20%	25V	



<u>REF. NO.</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>REMARK</u>		<u>REF. NO.</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>REMARK</u>
C2003	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V	IC1703	8-759-353-02	IC NJM2533M(TE2)
C2005	1-163-009-11	CERAMIC CHIP	0.001μF	10%	50V	IC1704	8-759-443-11	IC NJM2283M-TE1
C2006	1-104-664-11	ELECT	47μF	20%	25V	IC2001	8-759-470-63	IC NJM2145M-TE2
<CONNECTOR>								
CN1701	1-573-301-21	CONNECTOR, BOARD TO BOARD 20P				J1701	1-750-515-11	TERMINAL BLOCK, S 3P(VIDEO 1 IN)
CN1702*	1-564-526-11	PLUG, CONNECTOR 11P				J1702	1-750-515-11	TERMINAL BLOCK, S 3P(VIDEO 3 IN)
CN1703	1-573-301-21	CONNECTOR, BOARD TO BOARD 20P				J1703	1-774-358-11	JACK BLOCK, PIN(VIDEO 4 IN)
CN2001	1-573-301-21	CONNECTOR, BOARD TO BOARD 20P				J1704	1-774-358-11	JACK BLOCK, PIN(VIDEO 5 IN)
						J1705	1-750-517-11	JACK BLOCK, PIN 3P(TV OUT)
<DIODE>								
D1701	8-719-110-17	DIODE RD10ESB2				J1706	1-750-517-11	JACK BLOCK, PIN 3P(MONITOR OUT)
D1702	8-719-110-17	DIODE RD10ESB2				J1707	1-750-516-11	JACK BLOCK, PIN 2P(AUDIO (VAR/FIX)OUT)
D1703	8-719-110-17	DIODE RD10ESB2				J2001	1-764-143-11	JACK 3P(CONTROL S OUT)
D1704	8-719-110-17	DIODE RD10ESB2				J2002	1-764-143-11	JACK 3P(S-LINK 5)
D1705	8-719-110-17	DIODE RD10ESB2				J2003	1-764-143-11	JACK 3P(S-LINK 4)
D1706	8-719-110-17	DIODE RD10ESB2				J2004	1-764-143-11	JACK 3P(S-LINK 3)
D1707	8-719-110-17	DIODE RD10ESB2				J2005	1-764-143-11	JACK 3P(S-LINK 1)
D1708	8-719-110-17	DIODE RD10ESB2				<COIL>		
D1709	8-719-110-17	DIODE RD10ESB2				L1701	1-414-187-11	INDUCTOR 47UH
D1710	8-719-110-17	DIODE RD10ESB2				<TRANSISTOR>		
D1711	8-719-110-17	DIODE RD10ESB2				Q1701	8-729-027-56	TRANSISTOR DTC143TKA-T146
D1712	8-719-110-17	DIODE RD10ESB2				Q1702	8-729-027-56	TRANSISTOR DTC143TKA-T146
D1713	8-719-110-17	DIODE RD10ESB2				Q1703	8-729-027-56	TRANSISTOR DTC143TKA-T146
D1714	8-719-110-17	DIODE RD10ESB2				Q1704	8-729-027-56	TRANSISTOR DTC143TKA-T146
D1715	8-719-110-17	DIODE RD10ESB2				Q1705	8-729-422-27	TRANSISTOR 2SD601A-Q
D1716	8-719-110-17	DIODE RD10ESB2				Q1706	8-729-422-27	TRANSISTOR 2SD601A-Q
D1717	8-719-110-17	DIODE RD10ESB2				Q1707	8-729-027-56	TRANSISTOR DTC143TKA-T146
D1718	8-719-110-17	DIODE RD10ESB2				Q1708	8-729-027-56	TRANSISTOR DTC143TKA-T146
D1719	8-719-110-17	DIODE RD10ESB2				Q1709	8-729-027-56	TRANSISTOR DTC143TKA-T146
D1720	8-719-110-17	DIODE RD10ESB2				Q1710	8-729-027-56	TRANSISTOR DTC143TKA-T146
D1721	8-719-110-17	DIODE RD10ESB2				Q1711	8-729-216-22	TRANSISTOR 2SA1162-G
D1722	8-719-110-17	DIODE RD10ESB2				Q1712	8-729-216-22	TRANSISTOR 2SA1162-G
D1723	8-719-110-17	DIODE RD10ESB2				Q1713	8-729-422-27	TRANSISTOR 2SD601A-Q
D1724	8-719-110-17	DIODE RD10ESB2				Q1714	8-729-422-27	TRANSISTOR 2SD601A-Q
D1725	8-719-110-17	DIODE RD10ESB2				Q1715	8-729-422-27	TRANSISTOR 2SD601A-Q
D1726	8-719-110-17	DIODE RD10ESB2				Q1716	8-729-422-27	TRANSISTOR 2SD601A-Q
D1727	8-719-110-17	DIODE RD10ESB2				Q1717	8-729-422-27	TRANSISTOR 2SD601A-Q
D1728	8-719-110-17	DIODE RD10ESB2				Q1718	8-729-422-27	TRANSISTOR 2SD601A-Q
D1729	8-719-110-17	DIODE RD10ESB2				Q1723	8-729-216-22	TRANSISTOR 2SA1162-G
D1730	8-719-110-17	DIODE RD10ESB2				Q1724	8-729-422-27	TRANSISTOR 2SD601A-Q
D1731	8-719-991-33	DIODE ISS133T-77				Q1725	8-729-422-27	TRANSISTOR 2SD601A-Q
D1732	8-719-991-33	DIODE ISS133T-77				Q1726	8-729-422-27	TRANSISTOR 2SD601A-Q
D2001	8-719-991-33	DIODE ISS133T-77				Q1727	8-729-216-22	TRANSISTOR 2SA1162-G
D2002	8-719-991-33	DIODE ISS133T-77				Q1728	8-729-216-22	TRANSISTOR 2SA1162-G
D2003	8-719-109-89	DIODE RD5.6ESB2				Q1729	8-729-216-22	TRANSISTOR 2SA1162-G
D2004	8-719-109-89	DIODE RD5.6ESB2				Q1730	8-729-422-27	TRANSISTOR 2SD601A-Q
D2005	8-719-109-89	DIODE RD5.6ESB2				Q1731	8-729-422-27	TRANSISTOR 2SD601A-Q
D2006	8-719-109-89	DIODE RD5.6ESB2				Q1732	8-729-422-27	TRANSISTOR 2SD601A-Q
D2007	8-719-109-89	DIODE RD5.6ESB2				Q1733	8-729-216-22	TRANSISTOR 2SA1162-G
D2008	8-719-069-55	DIODE UDZS-5.6B				Q1734	8-729-216-22	TRANSISTOR 2SA1162-G
<IC>								
IC1701	8-759-100-96	IC UPC4558G2				Q1735	8-729-216-22	TRANSISTOR 2SA1162-G
IC1702	8-752-082-87	IC CXA1845Q						



<u>REF. NO.</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>REMARK</u>	<u>REF. NO.</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>REMARK</u>
Q2001	8-729-422-27	TRANSISTOR	2SD601A-Q	R1747	1-216-041-00	RES,CHIP	470 5% 1/10W
Q2002	8-729-422-27	TRANSISTOR	2SD601A-Q	R1748	1-216-041-00	RES,CHIP	470 5% 1/10W
Q2003	8-729-216-22	TRANSISTOR	2SA1162-G	R1749	1-216-019-00	RES,CHIP	56 5% 1/10W
Q2004	8-729-216-22	TRANSISTOR	2SA1162-G	R1750	1-216-017-91	RES,CHIP	47 5% 1/10W
Q2005	1-801-806-11	TRANSISTOR	DTC144EKA-T146	R1751	1-216-049-91	RES,CHIP	1K 5% 1/10W
Q2006	8-729-216-22	TRANSISTOR	2SA1162-G	R1752	1-216-049-91	RES,CHIP	1K 5% 1/10W
Q2008	8-729-216-22	TRANSISTOR	2SA1162-G	R1753	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
Q2010	8-729-216-22	TRANSISTOR	2SA1162-G	R1754	1-216-073-00	RES,CHIP	10K 5% 1/10W
				R1755	1-216-065-91	RES,CHIP	4.7K 5% 1/10W
<RESISTOR>				R1756	1-216-089-91	RES,CHIP	47K 5% 1/10W
R1701	1-216-022-00	RES,CHIP	75 5% 1/10W	R1757	1-216-065-91	RES,CHIP	4.7K 5% 1/10W
R1702	1-216-041-00	RES,CHIP	470 5% 1/10W	R1758	1-216-089-91	RES,CHIP	47K 5% 1/10W
R1703	1-216-041-00	RES,CHIP	470 5% 1/10W	R1759	1-216-017-91	RES,CHIP	47 5% 1/10W
R1704	1-216-022-00	RES,CHIP	75 5% 1/10W	R1760	1-216-009-91	RES,CHIP	22 5% 1/10W
R1705	1-216-113-00	RES,CHIP	470K 5% 1/10W	R1761	1-216-025-91	RES,CHIP	100 5% 1/10W
R1706	1-216-113-00	RES,CHIP	470K 5% 1/10W	R1769	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R1707	1-216-022-00	RES,CHIP	75 5% 1/10W	R1772	1-216-047-91	RES,CHIP	820 5% 1/10W
R1708	1-216-022-00	RES,CHIP	75 5% 1/10W	R1777	1-216-025-91	RES,CHIP	100 5% 1/10W
R1709	1-216-022-00	RES,CHIP	75 5% 1/10W	R1778	1-216-025-91	RES,CHIP	100 5% 1/10W
R1710	1-216-113-00	RES,CHIP	470K 5% 1/10W	R1779	1-216-025-91	RES,CHIP	100 5% 1/10W
R1711	1-216-113-00	RES,CHIP	470K 5% 1/10W	R1780	1-216-025-91	RES,CHIP	100 5% 1/10W
R1712	1-216-022-00	RES,CHIP	75 5% 1/10W	R1781	1-216-025-91	RES,CHIP	100 5% 1/10W
R1713	1-216-022-00	RES,CHIP	75 5% 1/10W	R1782	1-216-025-91	RES,CHIP	100 5% 1/10W
R1714	1-216-022-00	RES,CHIP	75 5% 1/10W	R1783	1-216-025-91	RES,CHIP	100 5% 1/10W
R1715	1-216-041-00	RES,CHIP	470 5% 1/10W	R1784	1-216-025-91	RES,CHIP	100 5% 1/10W
R1716	1-216-041-00	RES,CHIP	470 5% 1/10W	R1785	1-216-025-91	RES,CHIP	100 5% 1/10W
R1717	1-216-041-00	RES,CHIP	470 5% 1/10W	R1786	1-216-025-91	RES,CHIP	100 5% 1/10W
R1718	1-216-041-00	RES,CHIP	470 5% 1/10W	R1787	1-216-653-11	METAL CHIP	1.2K 0.50% 1/10W
R1719	1-216-113-00	RES,CHIP	470K 5% 1/10W	R1788	1-216-041-00	RES,CHIP	470 5% 1/10W
R1720	1-216-113-00	RES,CHIP	470K 5% 1/10W	R1789	1-216-653-11	METAL CHIP	1.2K 0.50% 1/10W
R1721	1-216-089-91	RES,CHIP	47K 5% 1/10W	R1790	1-216-041-00	RES,CHIP	470 5% 1/10W
R1722	1-216-113-00	RES,CHIP	470K 5% 1/10W	R1791	1-216-655-11	RES,CHIP	1.5K 0.50% 1/10W
R1723	1-216-113-00	RES,CHIP	470K 5% 1/10W	R1792	1-208-776-11	RES,CHIP	560 0.50% 1/10W
R1724	1-216-089-91	RES,CHIP	47K 5% 1/10W	R1793	1-216-025-91	RES,CHIP	100 5% 1/10W
R1725	1-216-113-00	RES,CHIP	470K 5% 1/10W	R1794	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R1726	1-216-113-00	RES,CHIP	470K 5% 1/10W	R1795	1-216-093-91	RES,CHIP	68K 5% 1/10W
R1727	1-216-022-00	RES,CHIP	75 5% 1/10W	R1796	1-216-025-91	RES,CHIP	100 5% 1/10W
R1728	1-216-022-00	RES,CHIP	75 5% 1/10W	R1797	1-216-065-91	RES,CHIP	4.7K 5% 1/10W
R1729	1-216-022-00	RES,CHIP	75 5% 1/10W	R1798	1-216-025-91	RES,CHIP	100 5% 1/10W
R1730	1-216-113-00	RES,CHIP	470K 5% 1/10W	R1799	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R1731	1-216-113-00	RES,CHIP	470K 5% 1/10W	R1800	1-216-025-91	RES,CHIP	100 5% 1/10W
R1732	1-216-022-00	RES,CHIP	75 5% 1/10W	R1801	1-216-065-91	RES,CHIP	4.7K 5% 1/10W
R1733	1-216-022-00	RES,CHIP	75 5% 1/10W	R1806	1-216-025-91	RES,CHIP	100 5% 1/10W
R1734	1-216-022-00	RES,CHIP	75 5% 1/10W	R1807	1-216-025-91	RES,CHIP	100 5% 1/10W
R1735	1-216-113-00	RES,CHIP	470K 5% 1/10W	R1808	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R1736	1-216-113-00	RES,CHIP	470K 5% 1/10W	R1810	1-216-025-91	RES,CHIP	100 5% 1/10W
R1737	1-216-019-00	RES,CHIP	56 5% 1/10W	R1811	1-216-025-91	RES,CHIP	100 5% 1/10W
R1738	1-216-017-91	RES,CHIP	47 5% 1/10W	R1812	1-216-025-91	RES,CHIP	100 5% 1/10W
R1739	1-216-049-91	RES,CHIP	1K 5% 1/10W	R1813	1-216-065-91	RES,CHIP	4.7K 5% 1/10W
R1740	1-216-049-91	RES,CHIP	1K 5% 1/10W	R1814	1-216-653-11	METAL CHIP	1.2K 0.50% 1/10W
R1741	1-216-041-00	RES,CHIP	470 5% 1/10W	R1815	1-216-041-00	RES,CHIP	470 5% 1/10W
R1742	1-216-041-00	RES,CHIP	470 5% 1/10W	R1816	1-216-653-11	METAL CHIP	1.2K 0.50% 1/10W
R1743	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R1817	1-216-041-00	RES,CHIP	470 5% 1/10W
R1744	1-216-073-00	RES,CHIP	10K 5% 1/10W	R1818	1-216-025-91	RES,CHIP	100 5% 1/10W
R1745	1-216-041-00	RES,CHIP	470 5% 1/10W	R1819	1-216-025-91	RES,CHIP	100 5% 1/10W
R1746	1-216-041-00	RES,CHIP	470 5% 1/10W	R1820	1-216-655-11	RES,CHIP	1.5K 0.50% 1/10W
				R1821	1-208-784-11	RES,CHIP	1.2K 0.50% 1/10W

Les composants identifies par une trame et une marque  sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

The components identified by shading and mark  are critical for safety.
Replace only with part number specified.

KP-48V85/53V85/61V85
RM-Y905 RM-Y905 RM-Y905



KP-48V85/53V85/61V85

RM-Y905 RM-Y905 RM-Y905

<u>REF. NO.</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>REMARK</u>
	* 4-069-584-01	TRAY (61V85)	
	* 4-069-585-01	CUSHION (UPPER) (ASSY) (61V85)	
	* 4-069-586-01	CUSHION (LOWER) (ASSY) (61V85)	
	* 4-076-420-01	BAG, PROTECTION (61V85)	
	4-077-172-11	MANUAL, INSTRUCTION	
	4-077-172-21	MANUAL, INSTRUCTION	
	4-077-172-31	MANUAL, INSTRUCTION	
	4-077-172-41	MANUAL, INSTRUCTION	
		REMOTE COMMANDER	

	1-418-468-11	REMOTE COMMANDER (RM-Y905)	
	4-978-977-01	COVER, BATTERY (FOR RM-Y905)	